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Nationwide Urban Runoff Program
Lake Quinsigamond Urban Runoff Project
Report on Stormwater Measurements and Modeling - Appendices A, B, and C

Massachusetts Dept. of Environmental
Quality Engineering, Boston

Prepared for

Environmental Protection Agency, Washington, DC

Apr 81

U.S. Department of Commerce
National Technical Information Service
NTIS

PB84-212117

REPORT ON STORMWATER MEASUREMENTS AND MODELING

LAKE QUINSIGAMOND URBAN RUNOFF PROJECT

APPENDICES A, B, AND C

Submitted to:

Department of Environmental Quality Engineering

State of Massachusetts

April, 1981

EDP Environmental Design & Planning, Inc.
Engineering, Planning & Field Services

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the study of the urban runoff program

16. Abstract (Limit: 200 words)
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APPENDIX A

Appendix A

Flow Water Quality Plots

The following figures present plotted water quality concentration, mass loading data, and flow data. Mass loads are plotted only up to the end of the sampling period. Mass loads are plotted only up to the end of the sampling period. In many cases the event continues beyond the period covered by sampling. Mass loads are plotted as pounds per minute.

Individual figures present a single parameter (flow or water quality) and single station. On the figure all monitored events are plotted and the dates noted. Only the flow events for which water quality samples were taken have been plotted.

The plots are organized as follows:

Station -

- flow plot
- water quality concentration plots
- water quality mass load plots

Next Station

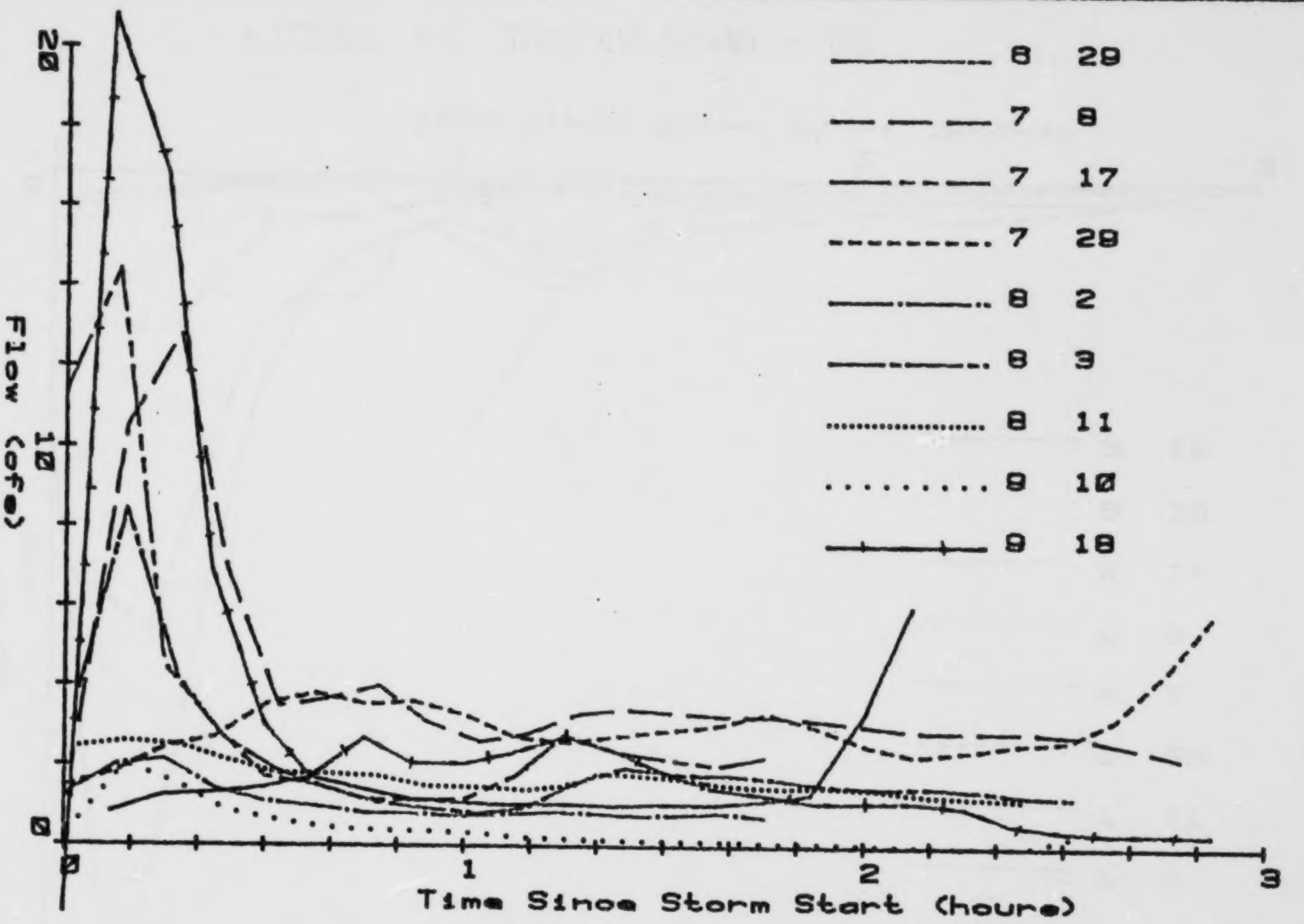

FIGURE A-1 JORDAN POND - FLOW

4

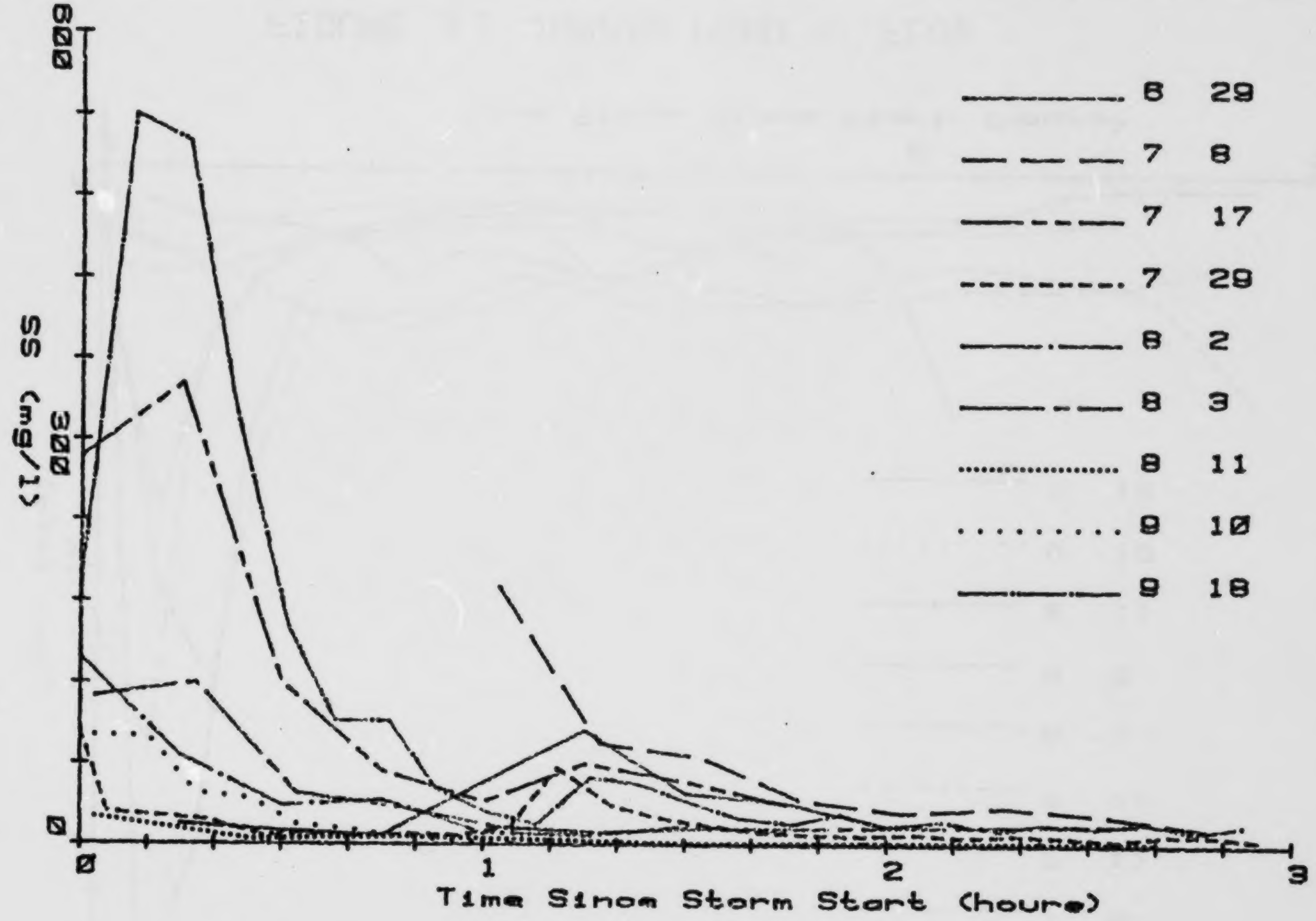

FIGURE A-2 JORDAN POND - SS

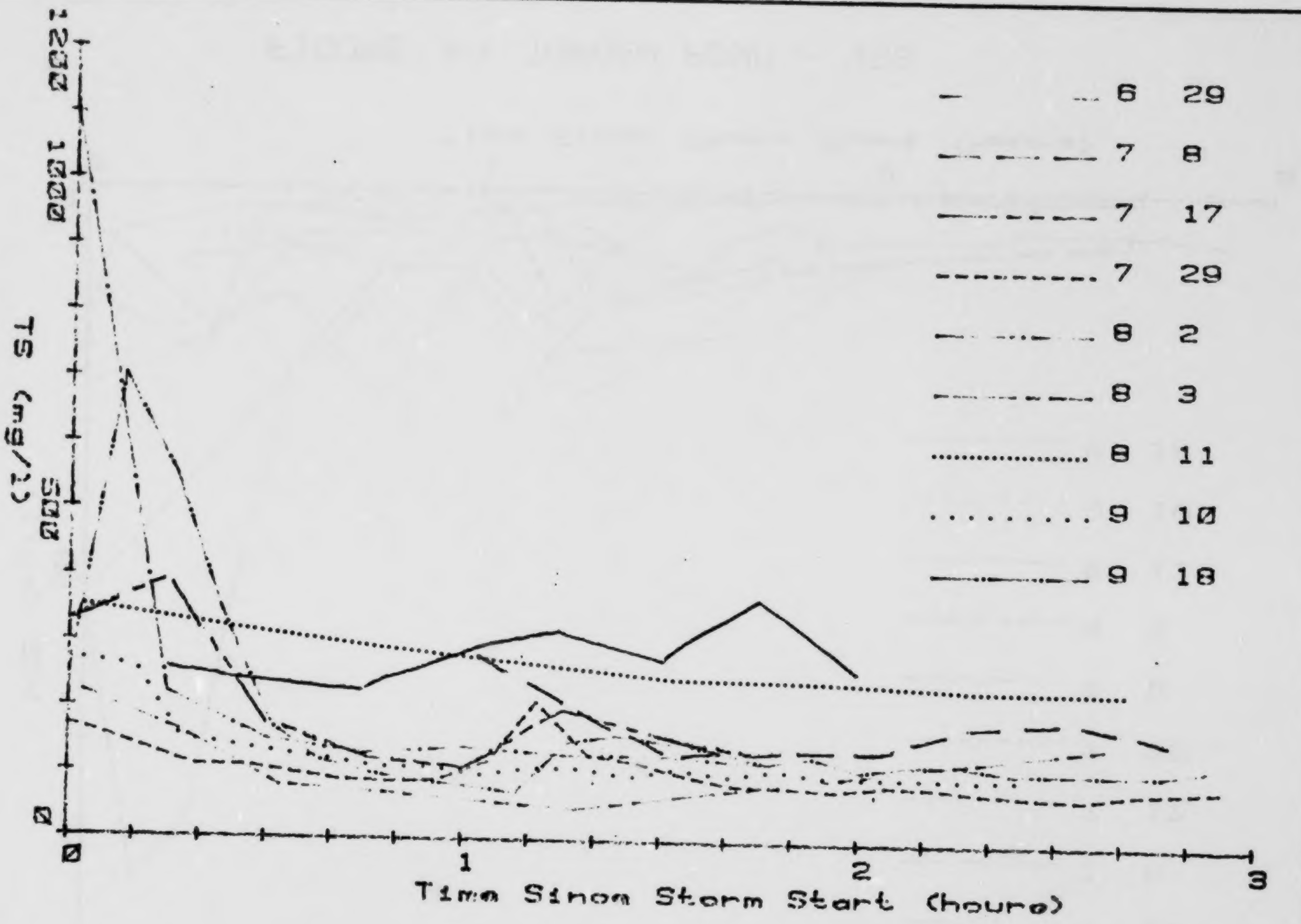

FIGURE A-3 JORDAN POND - TS

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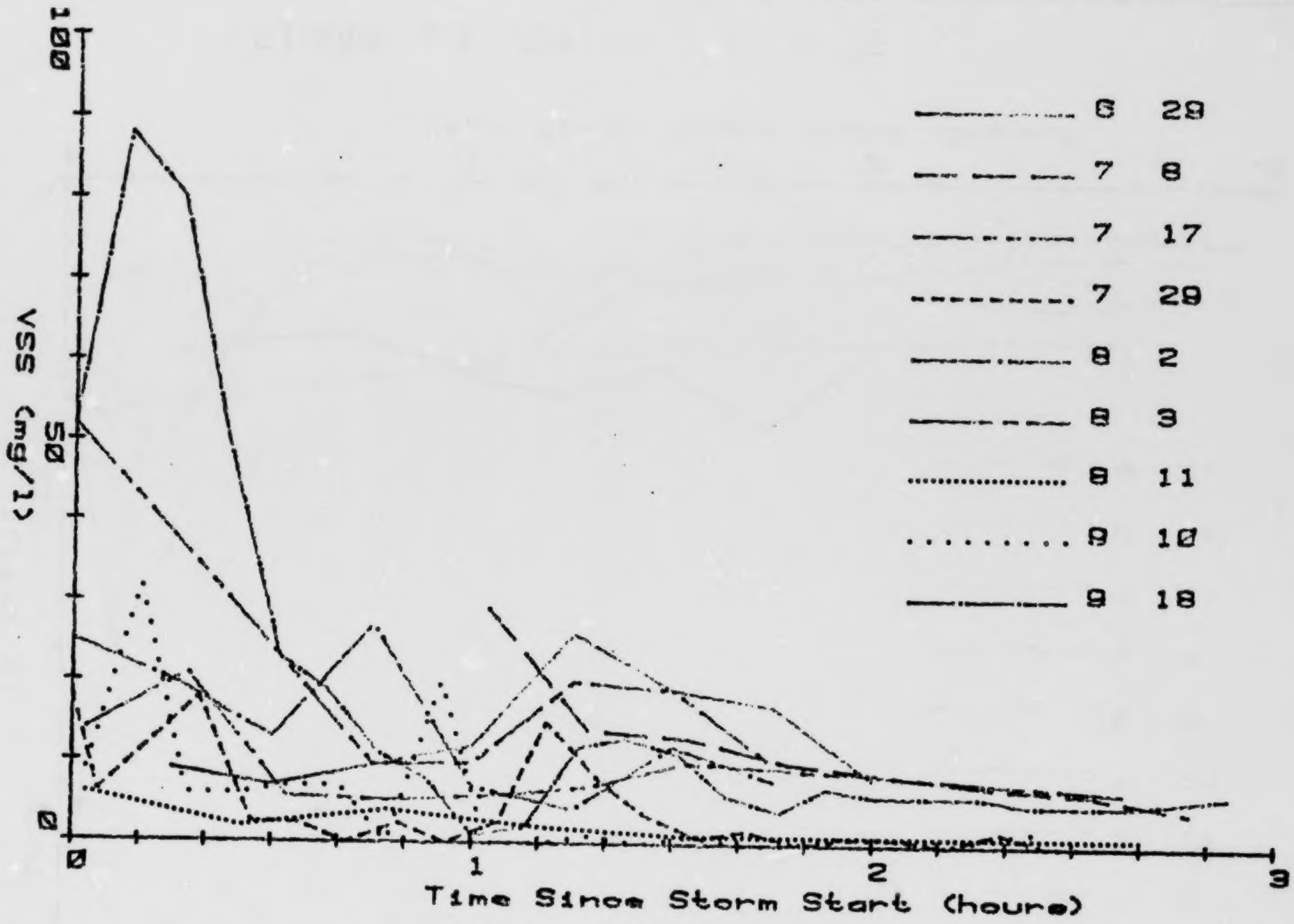


FIGURE A-4 JORDAN POND - VSS

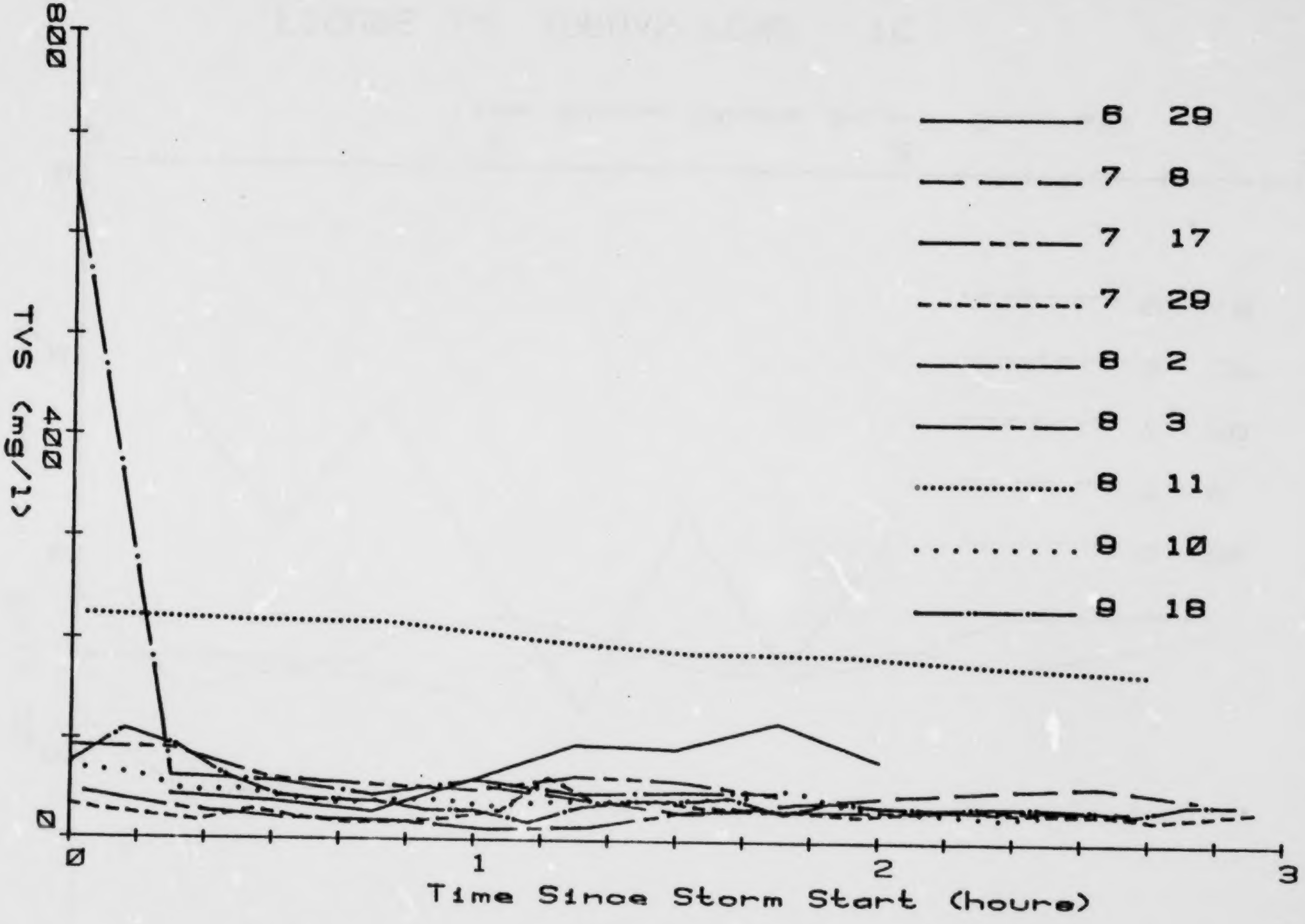


FIGURE A-5 JORDAN POND - TVS

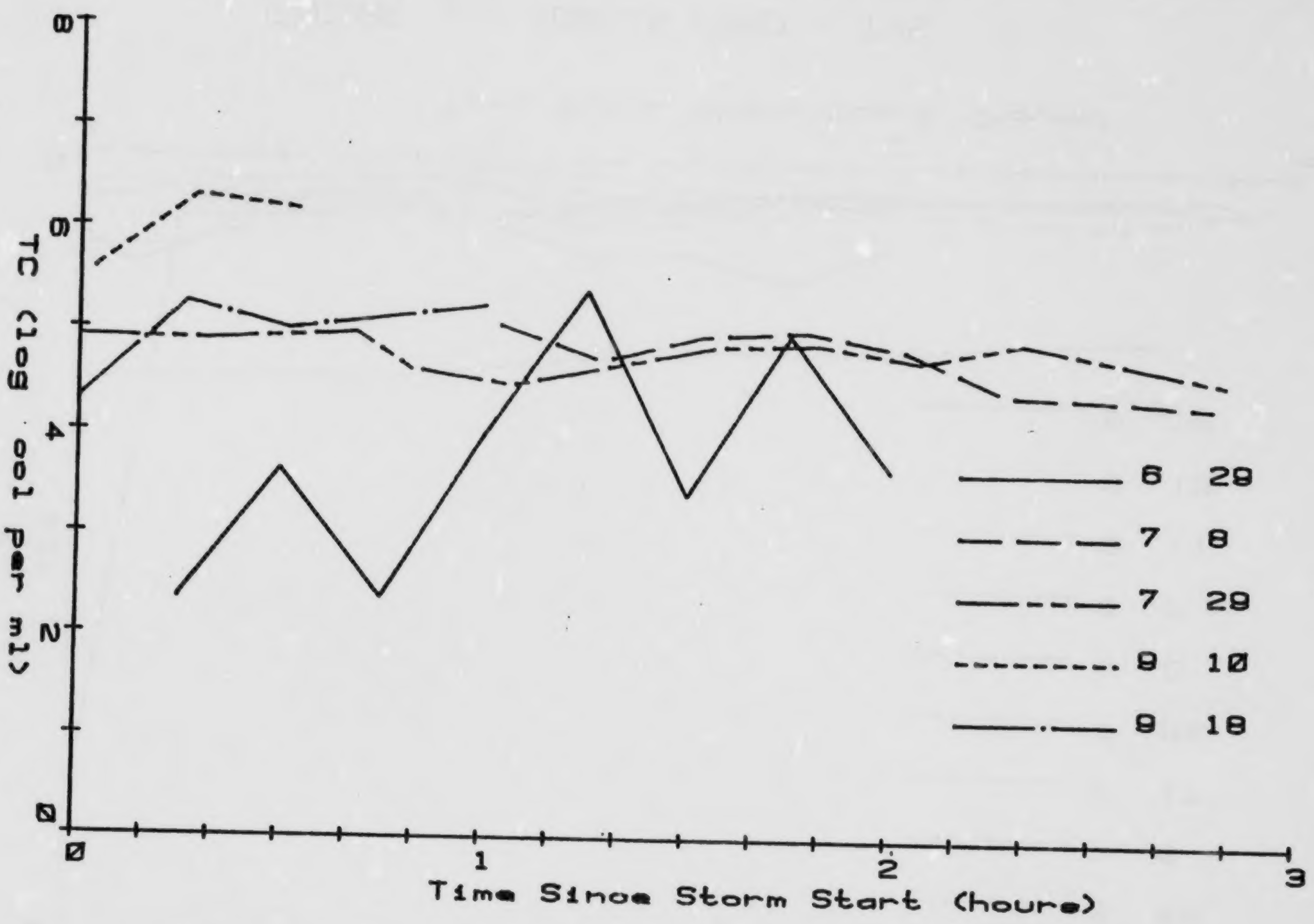


FIGURE A-6 JORDAN POND - TC

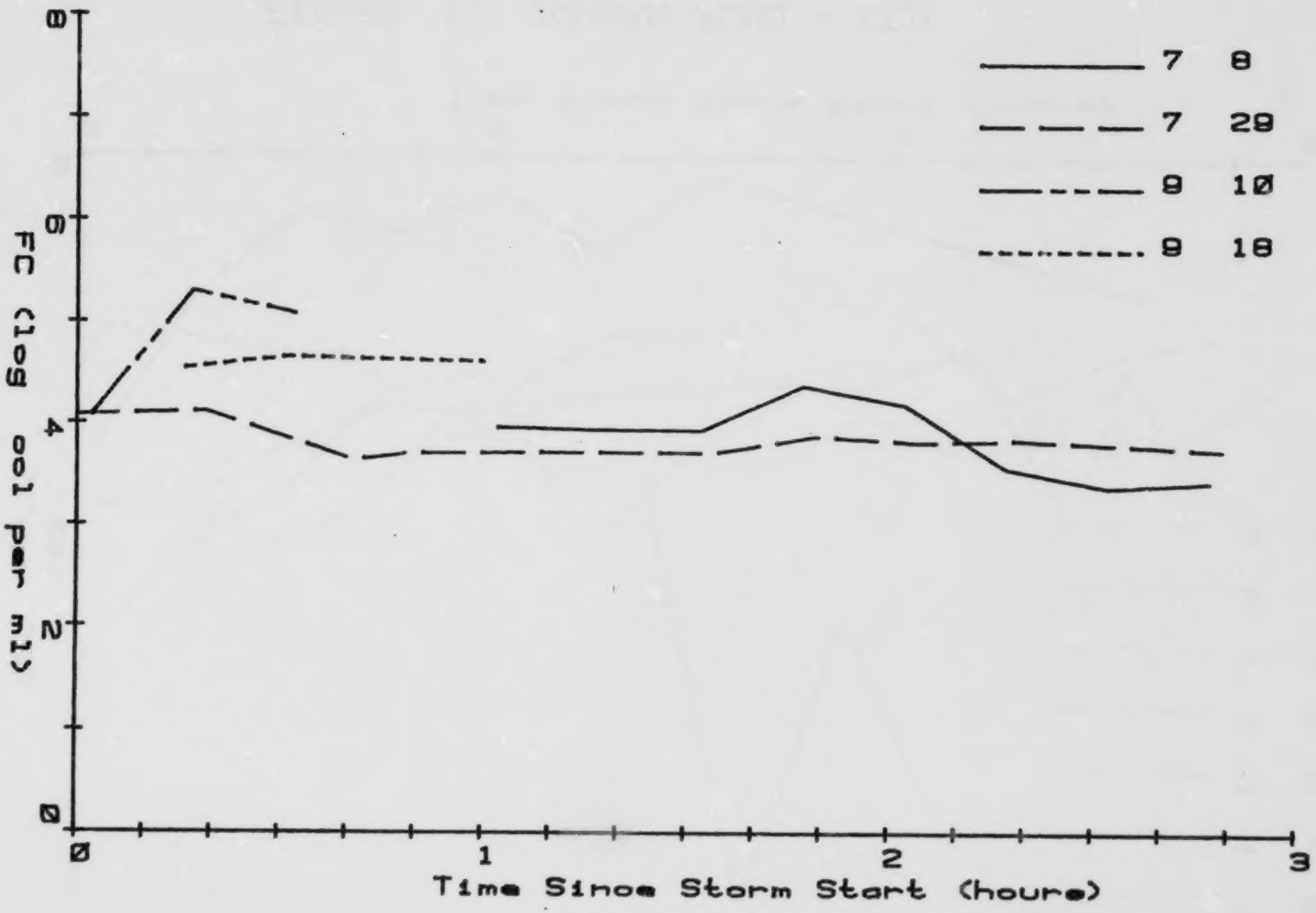


FIGURE A-7 JORDAN POND - FC

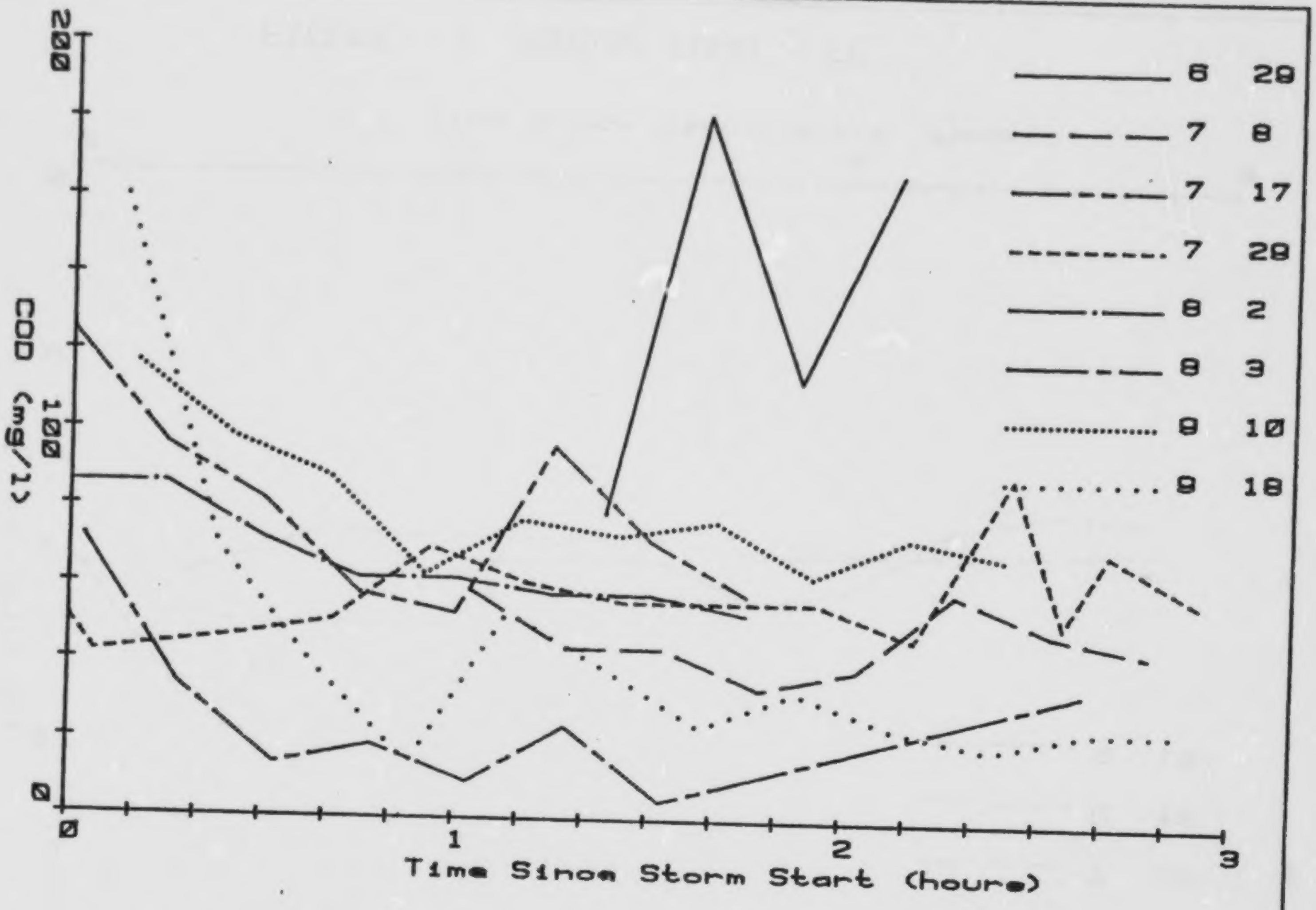
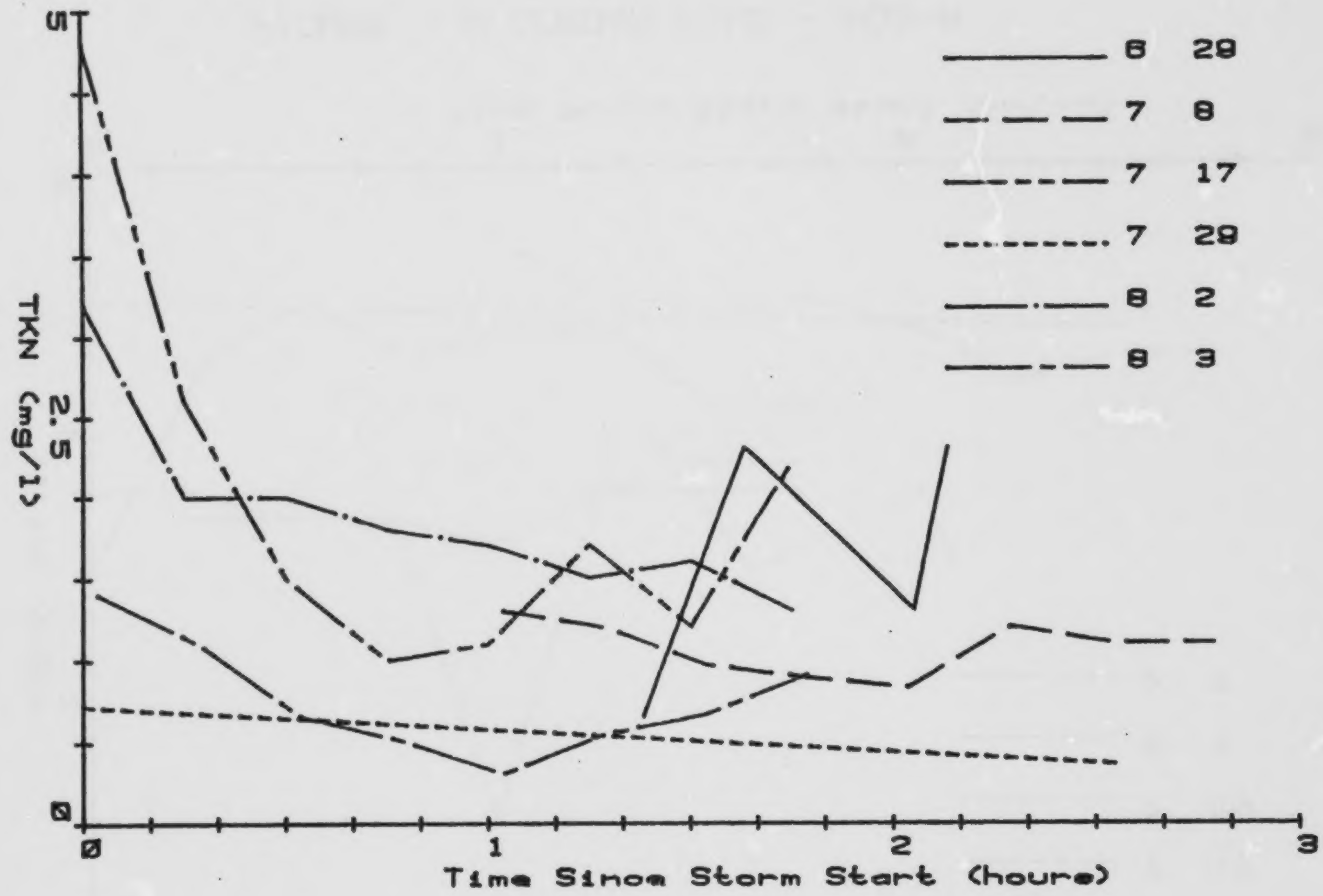


FIGURE A-8 JORDAN POND - COD



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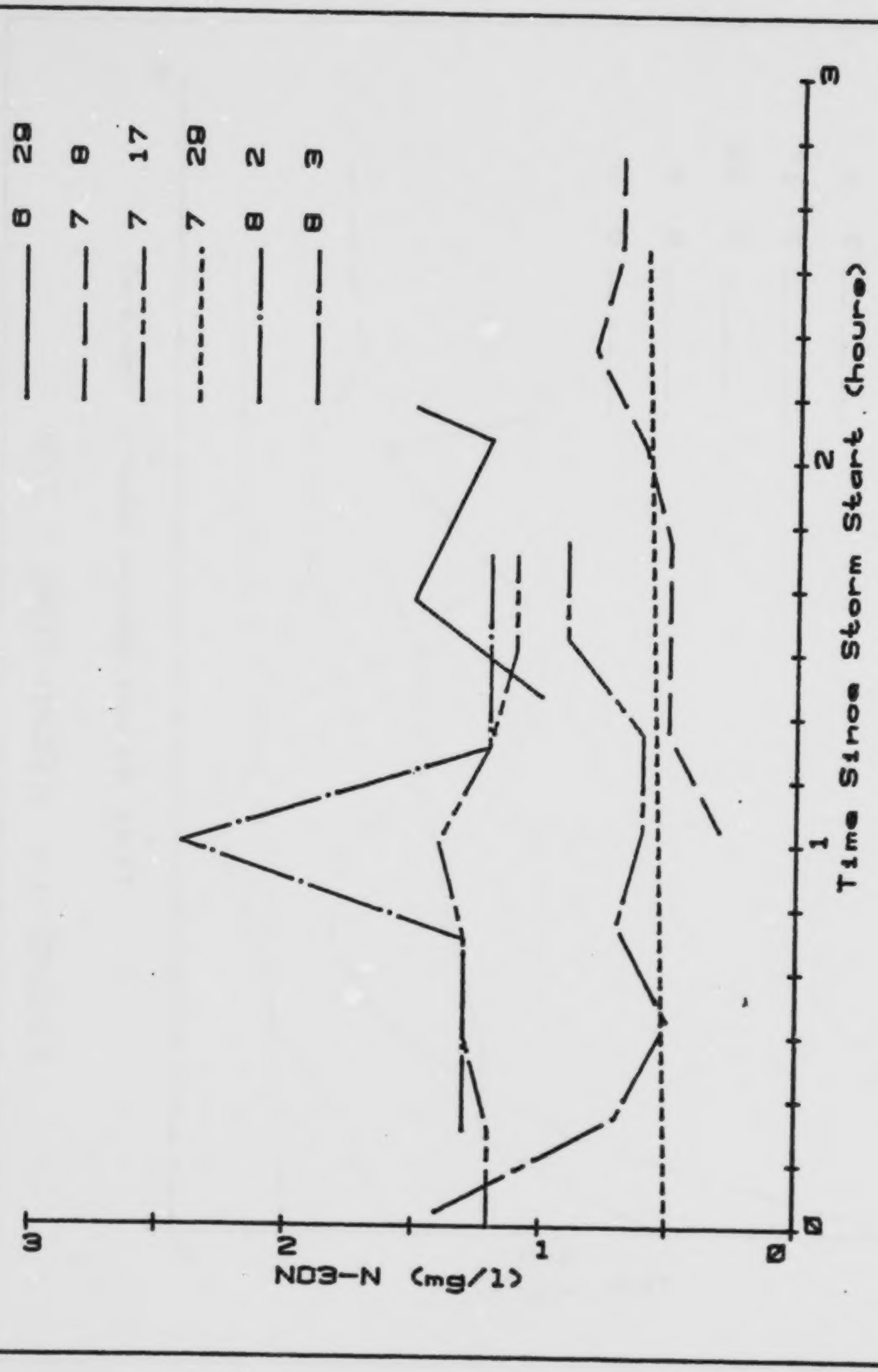
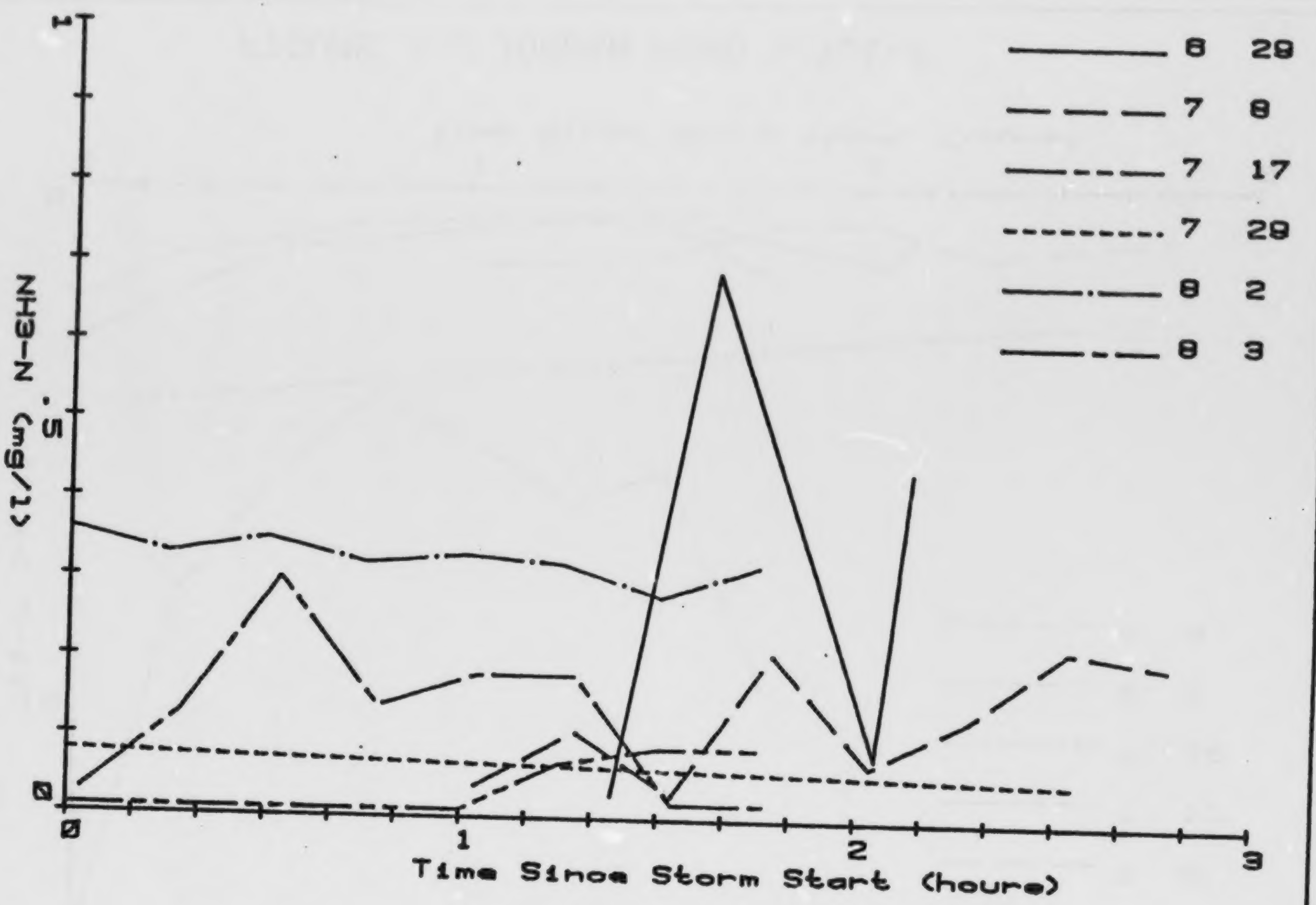


FIGURE A-10 JORDAN POND - NO3-N



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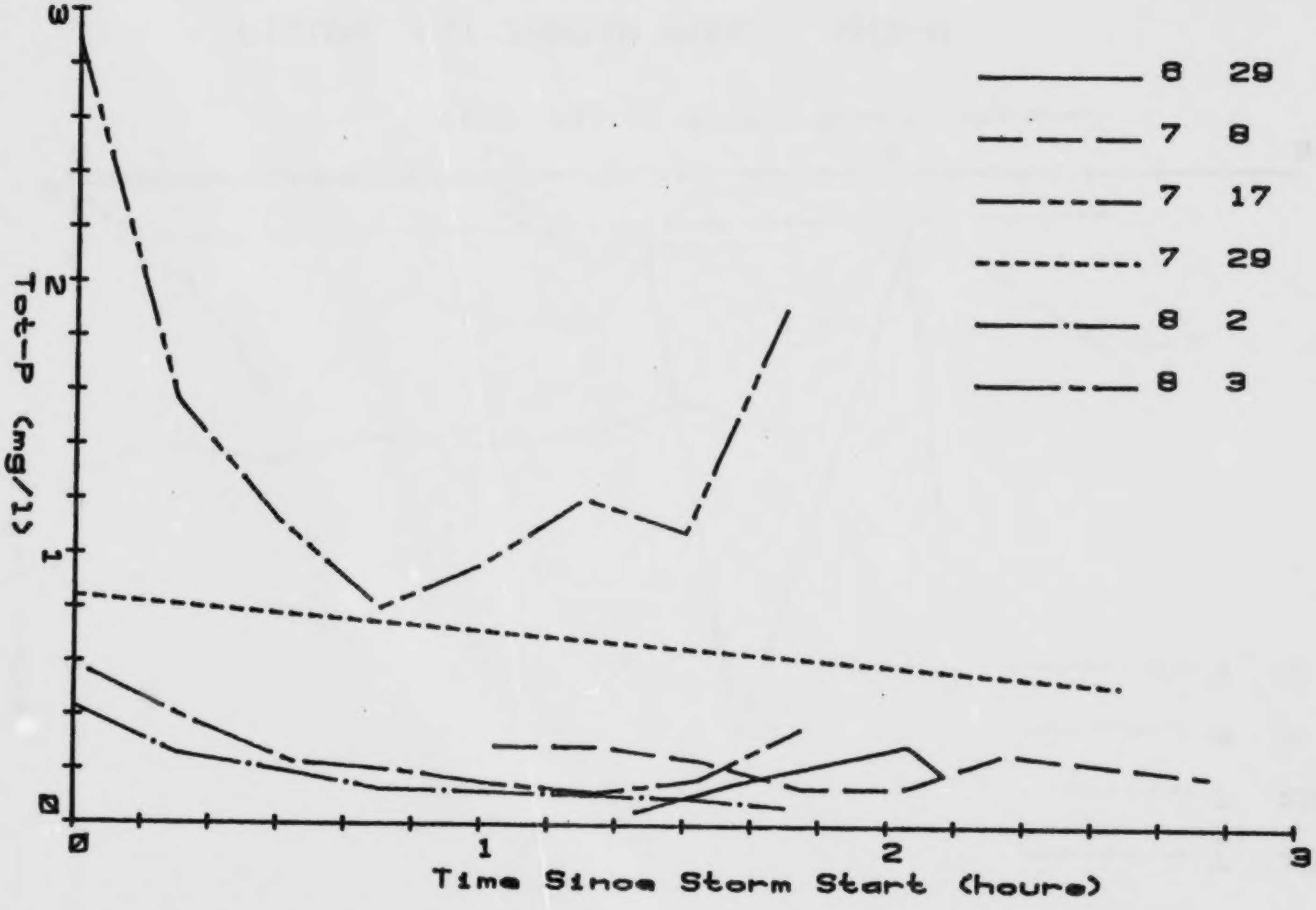

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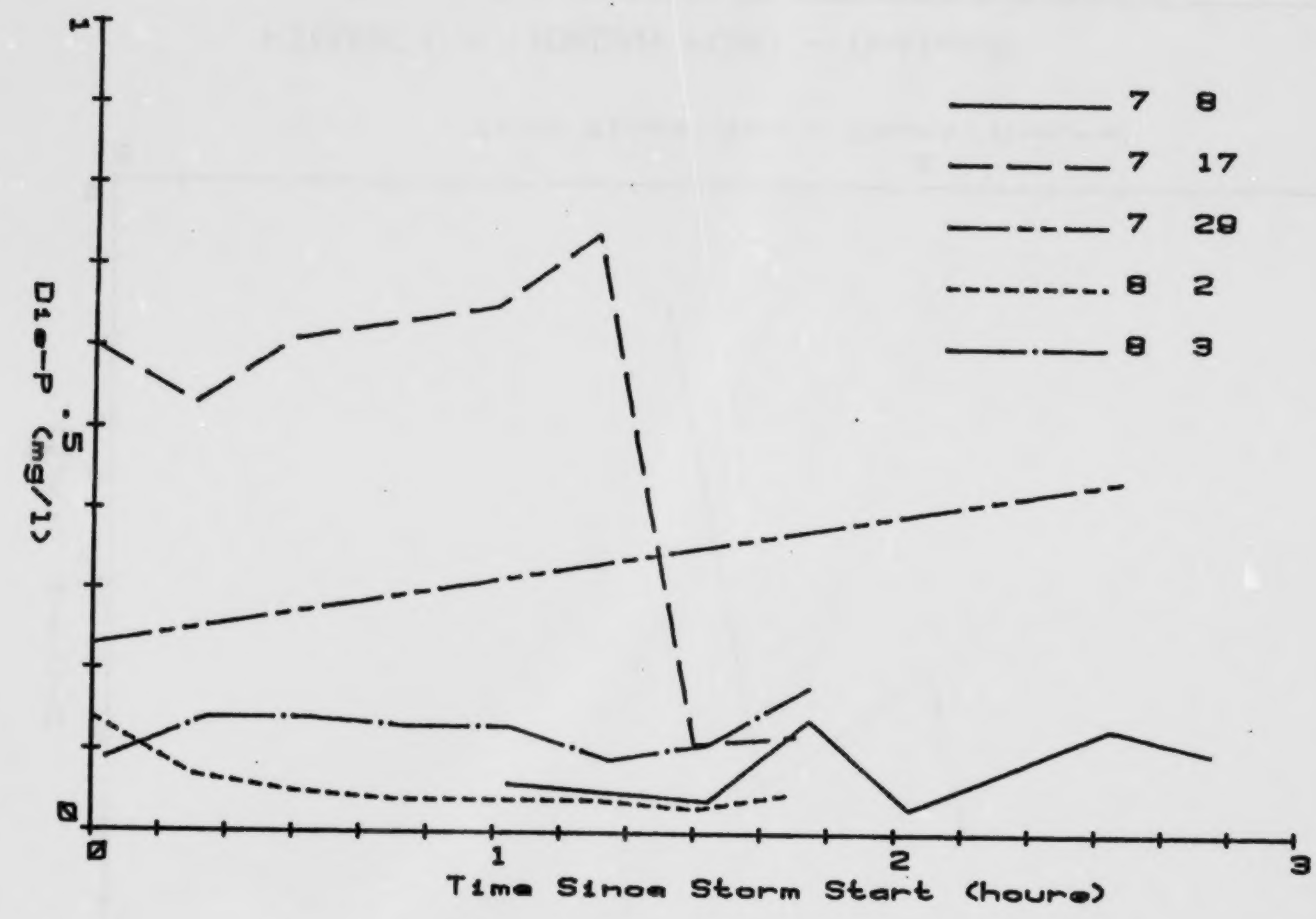

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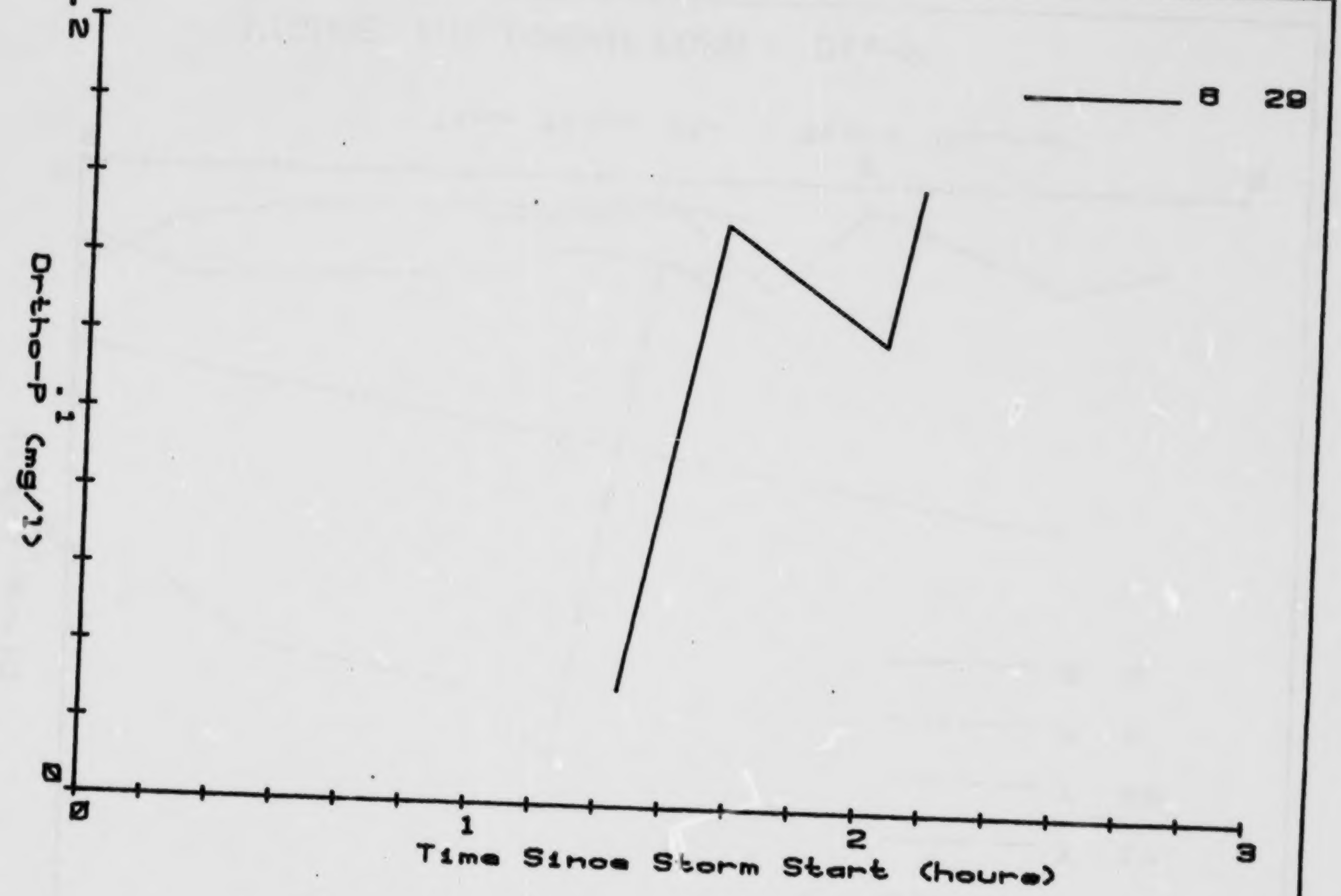

FIGURE A-14 JORDAN POND - Ortho-P

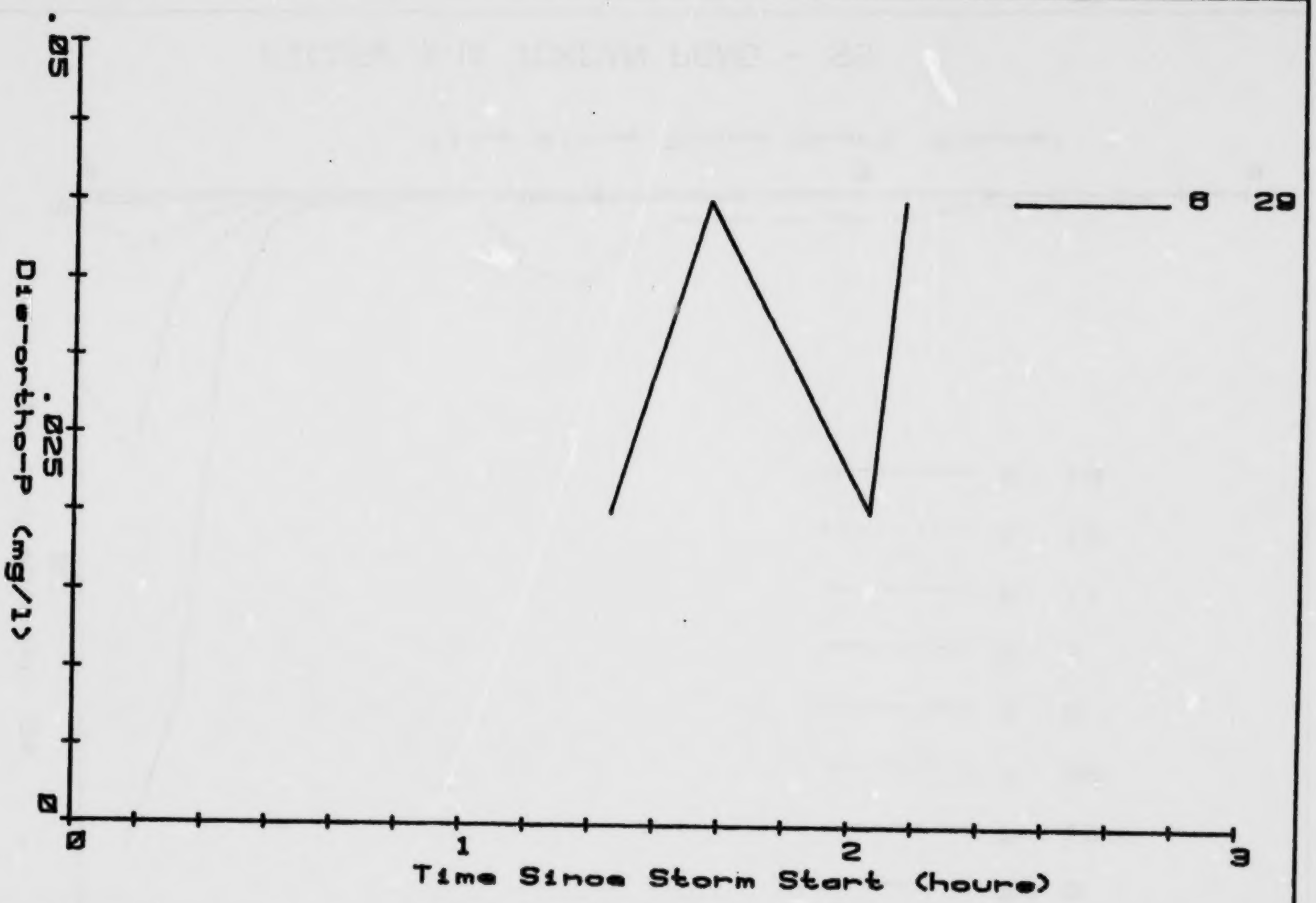

FIGURE A-15 JORDAN POND - Dis-ortho-P

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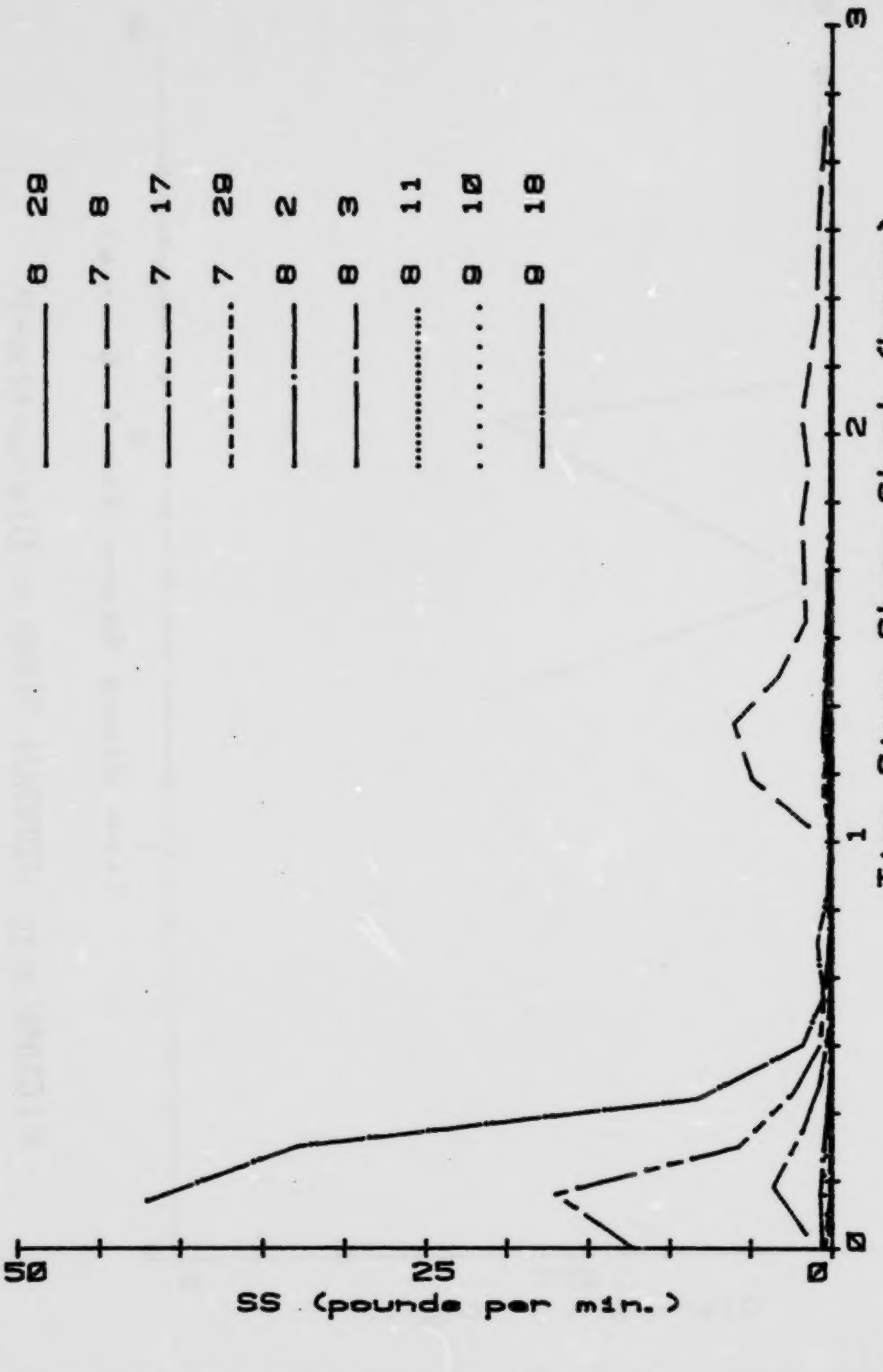

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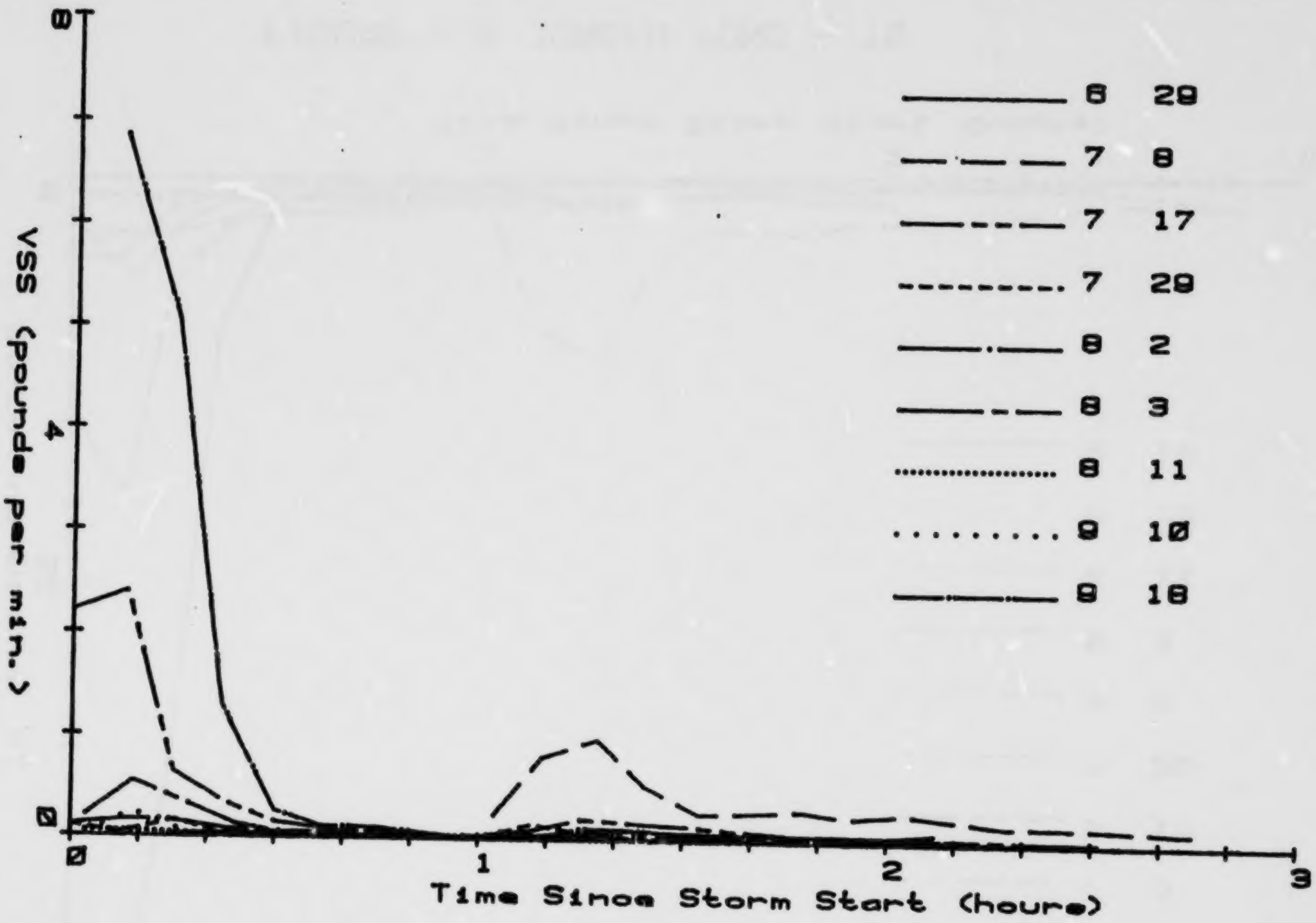

FIGURE A-17 JORDAN POND - VSS

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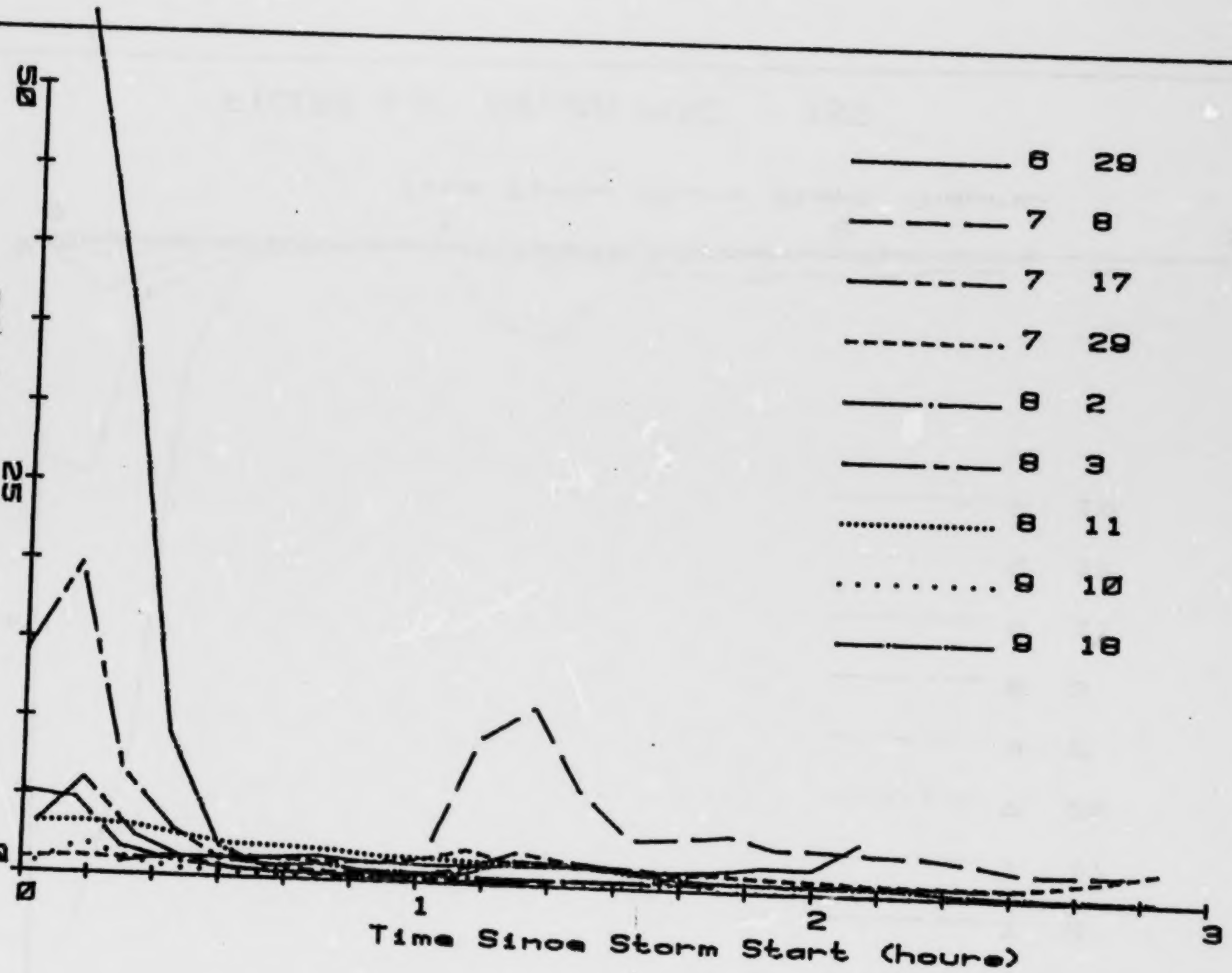

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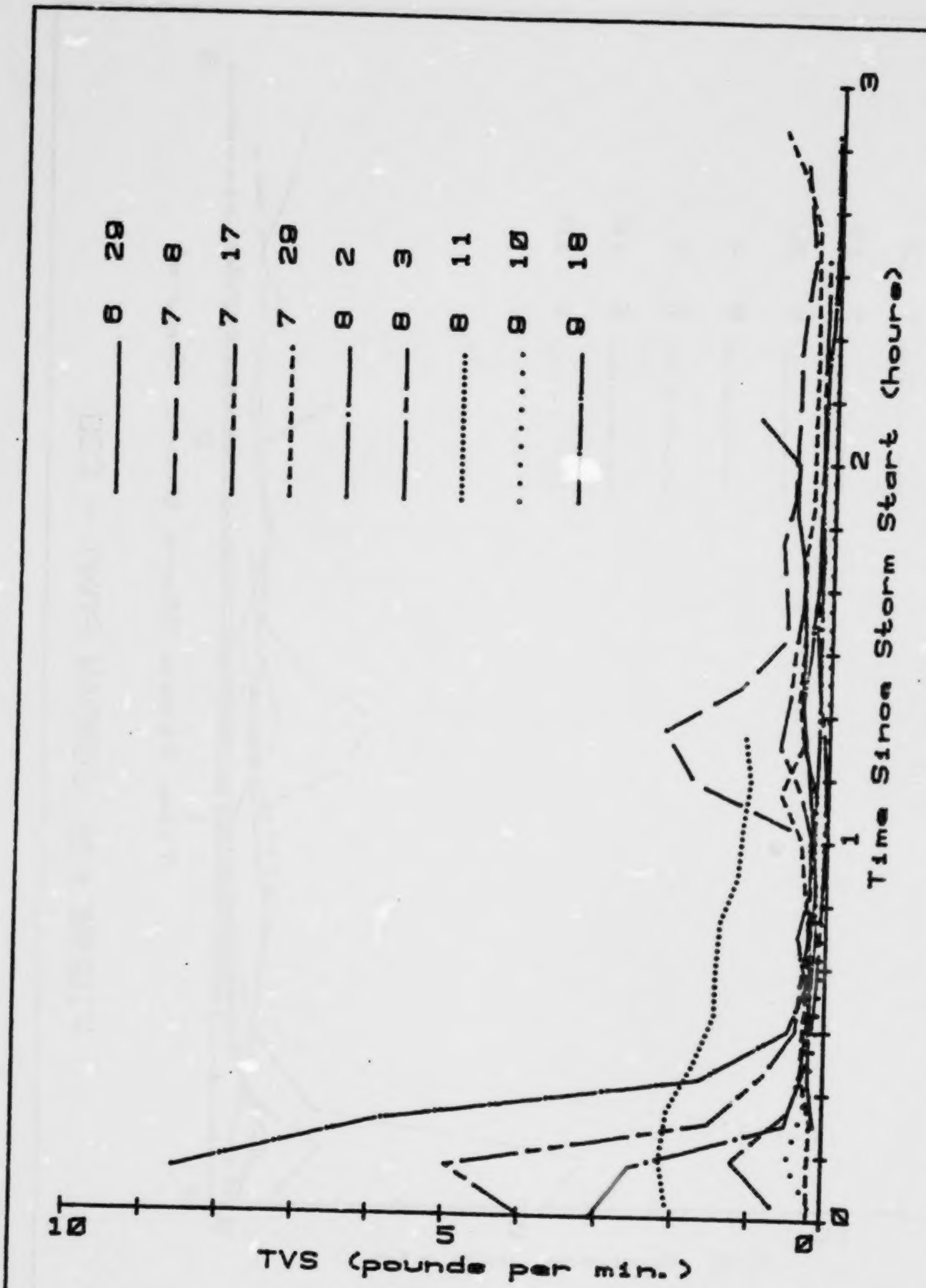

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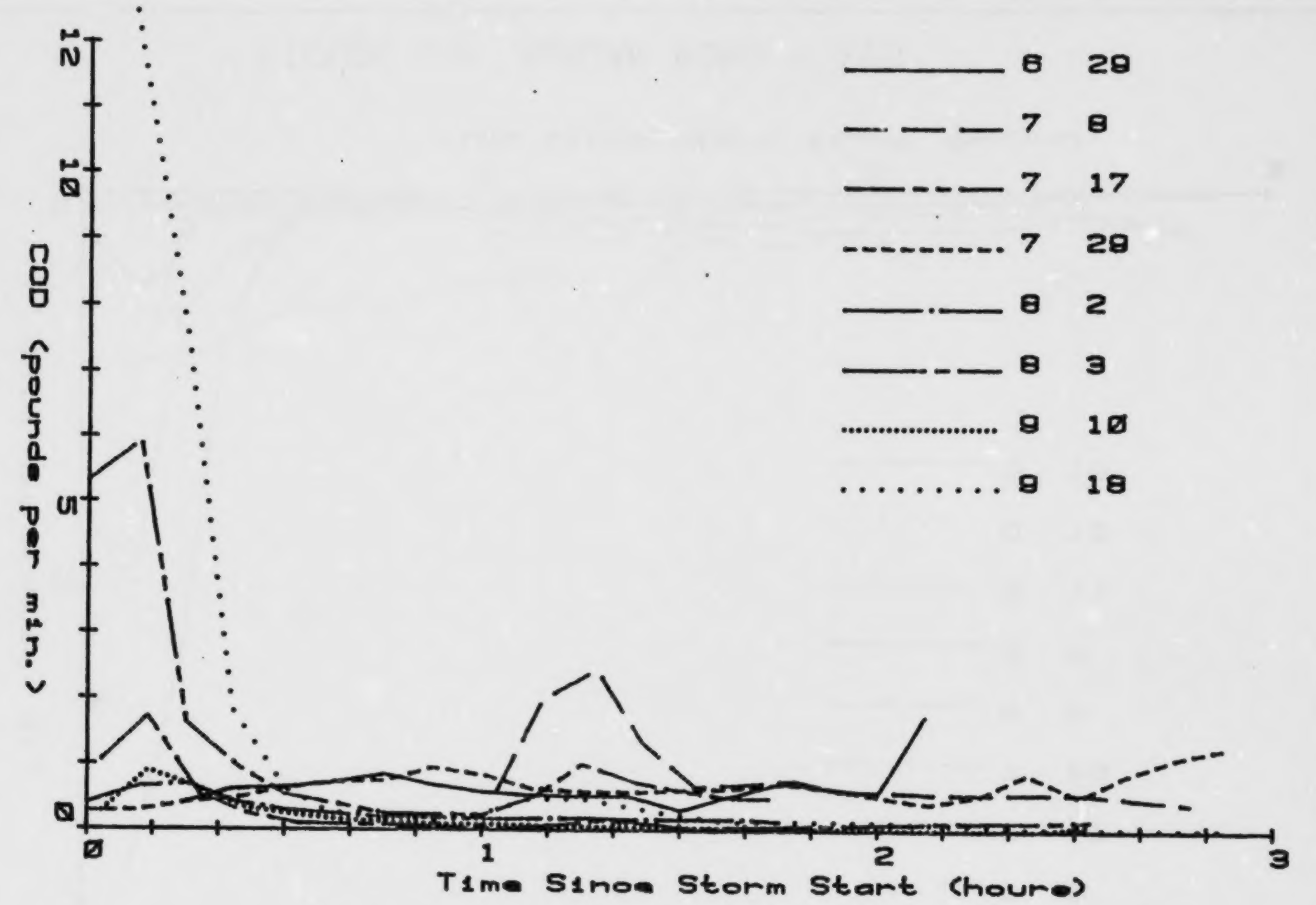

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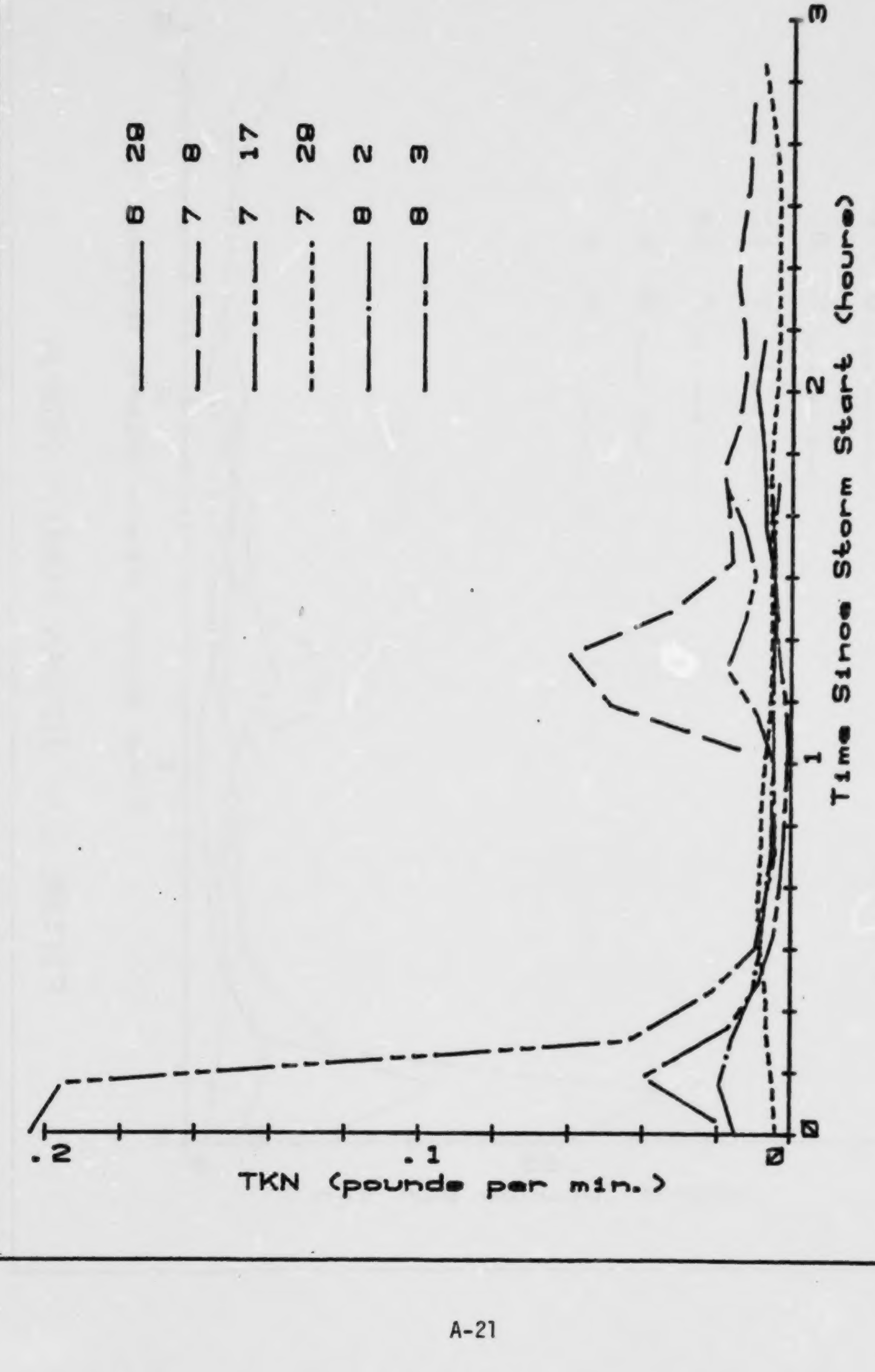

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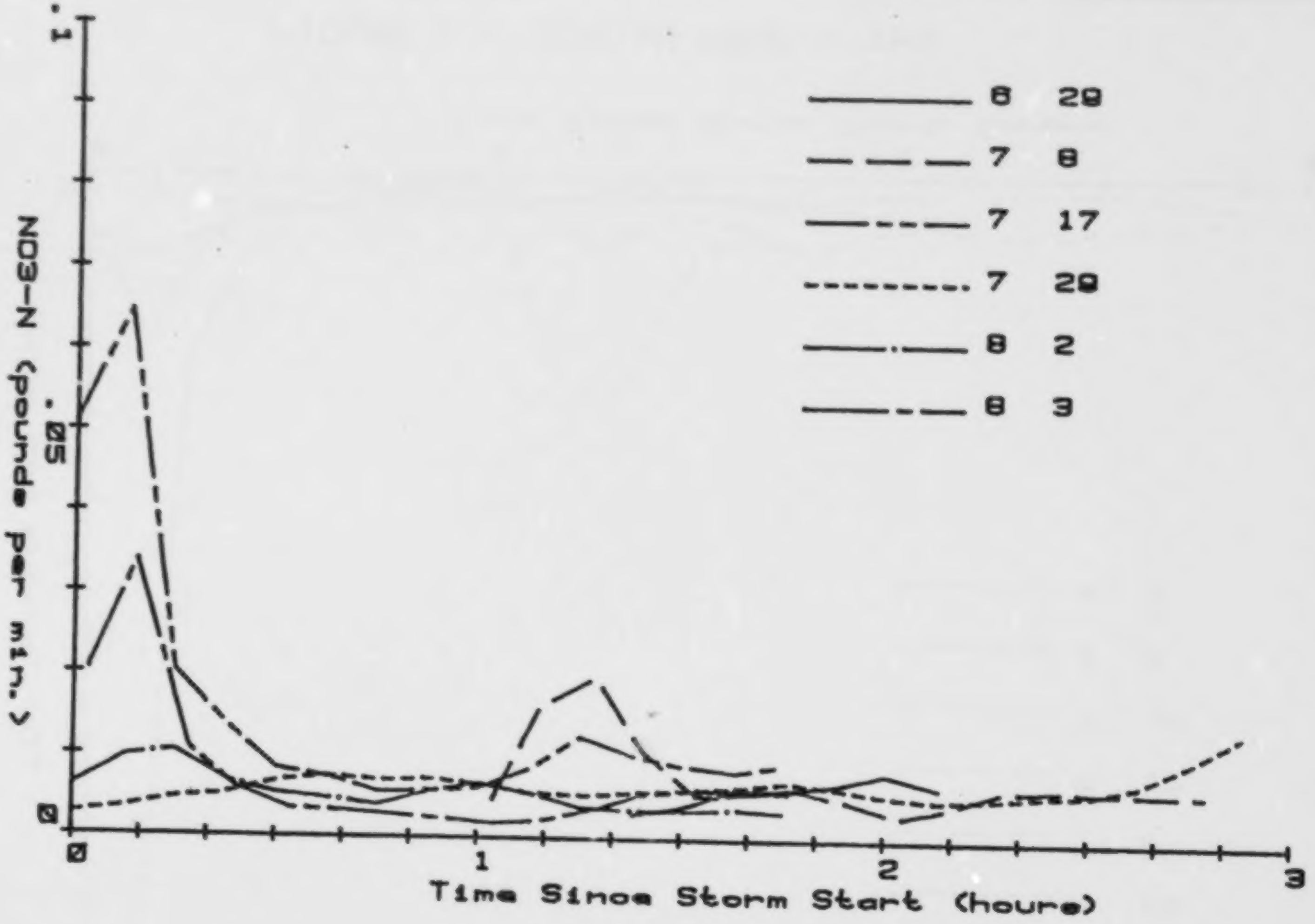

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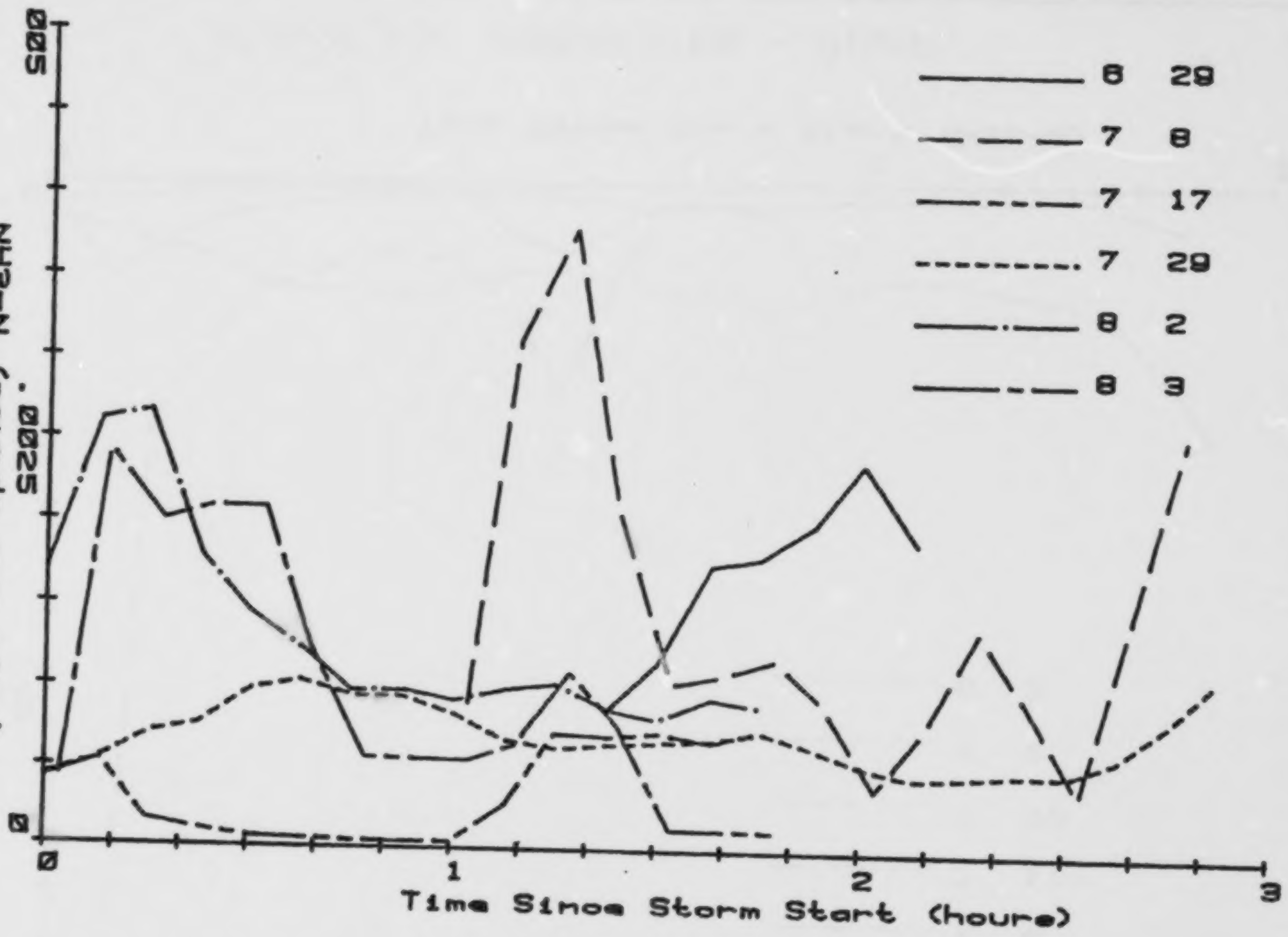

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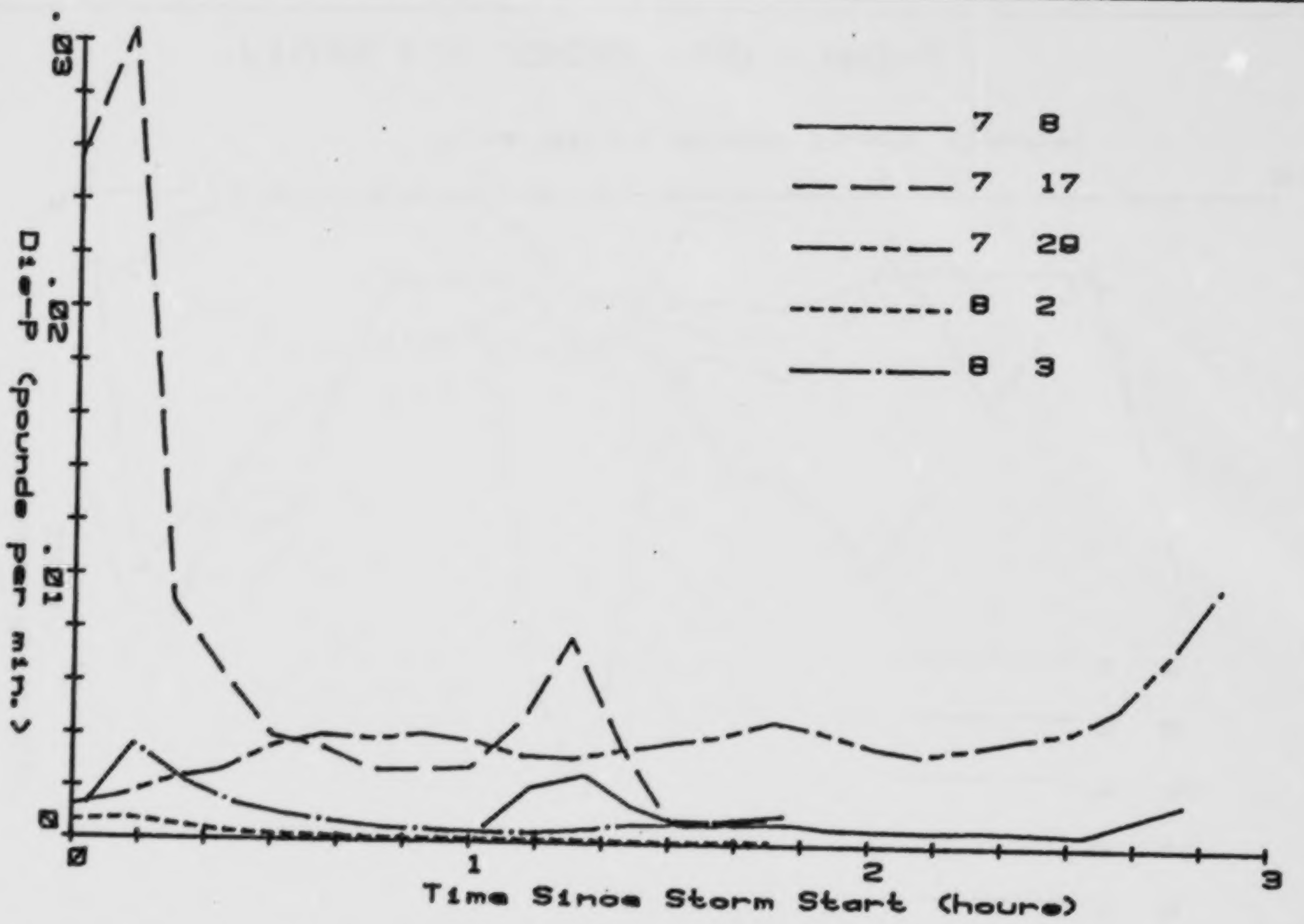

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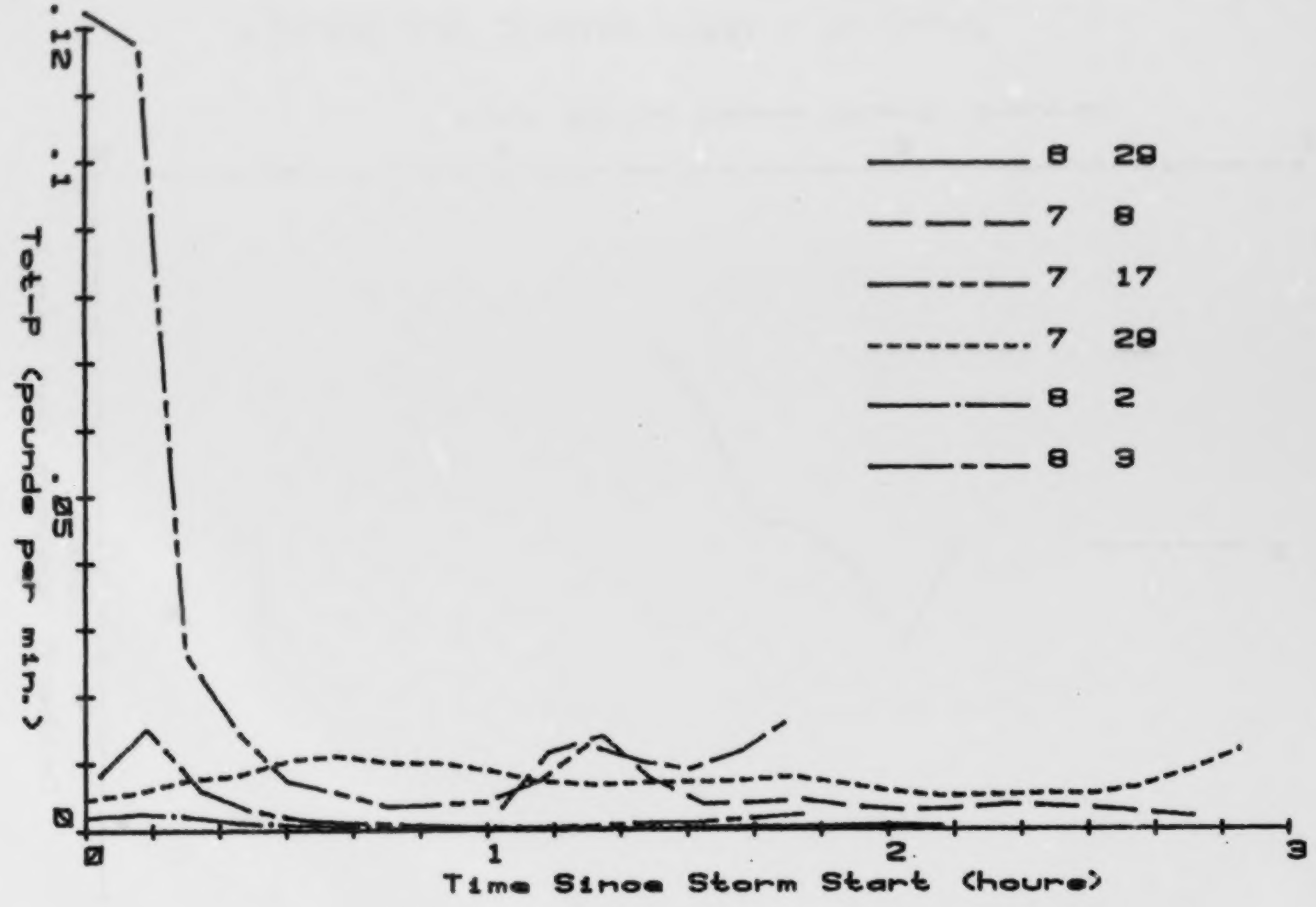
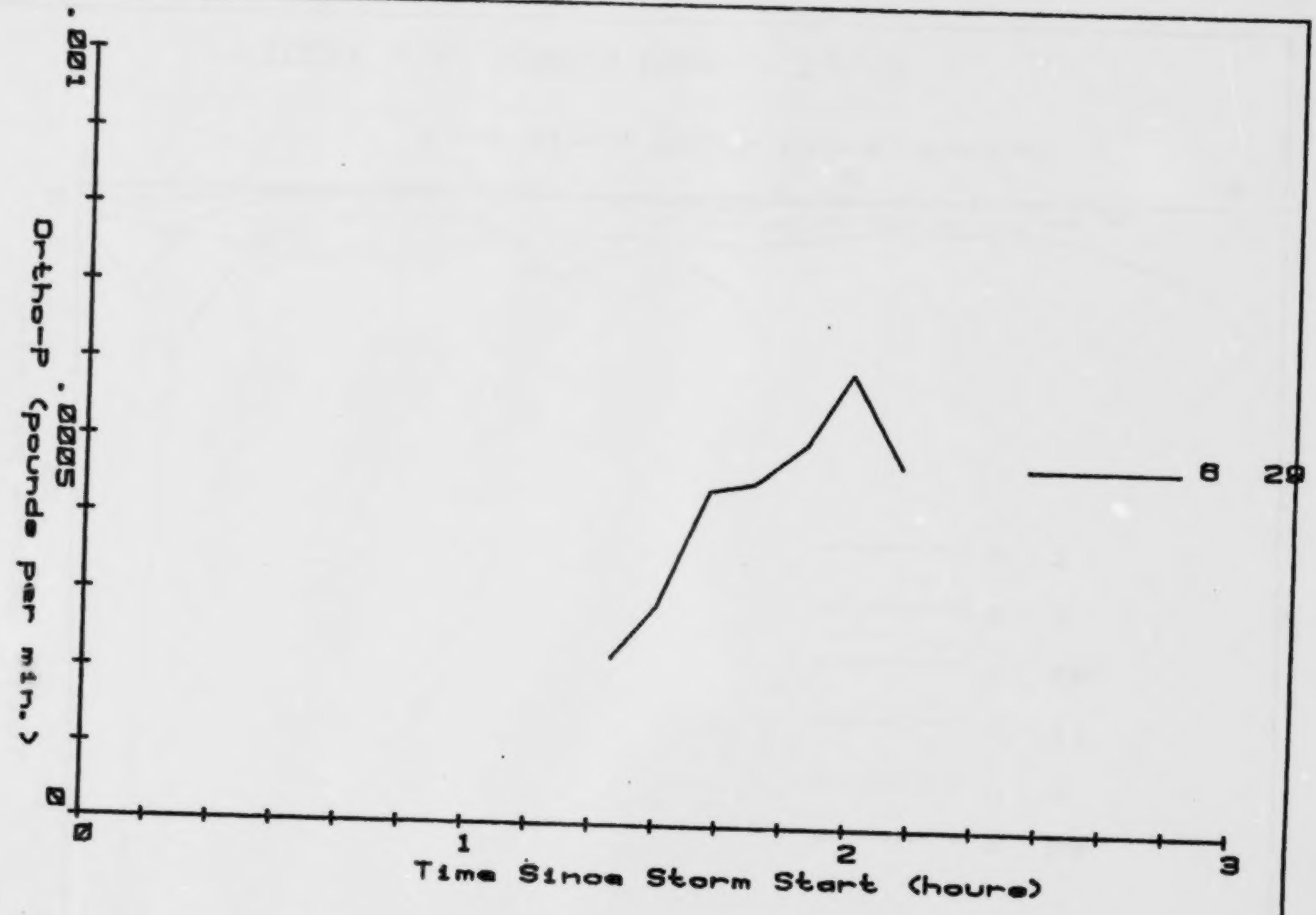


FIGURE A-25 JORDAN POND - Tot-P



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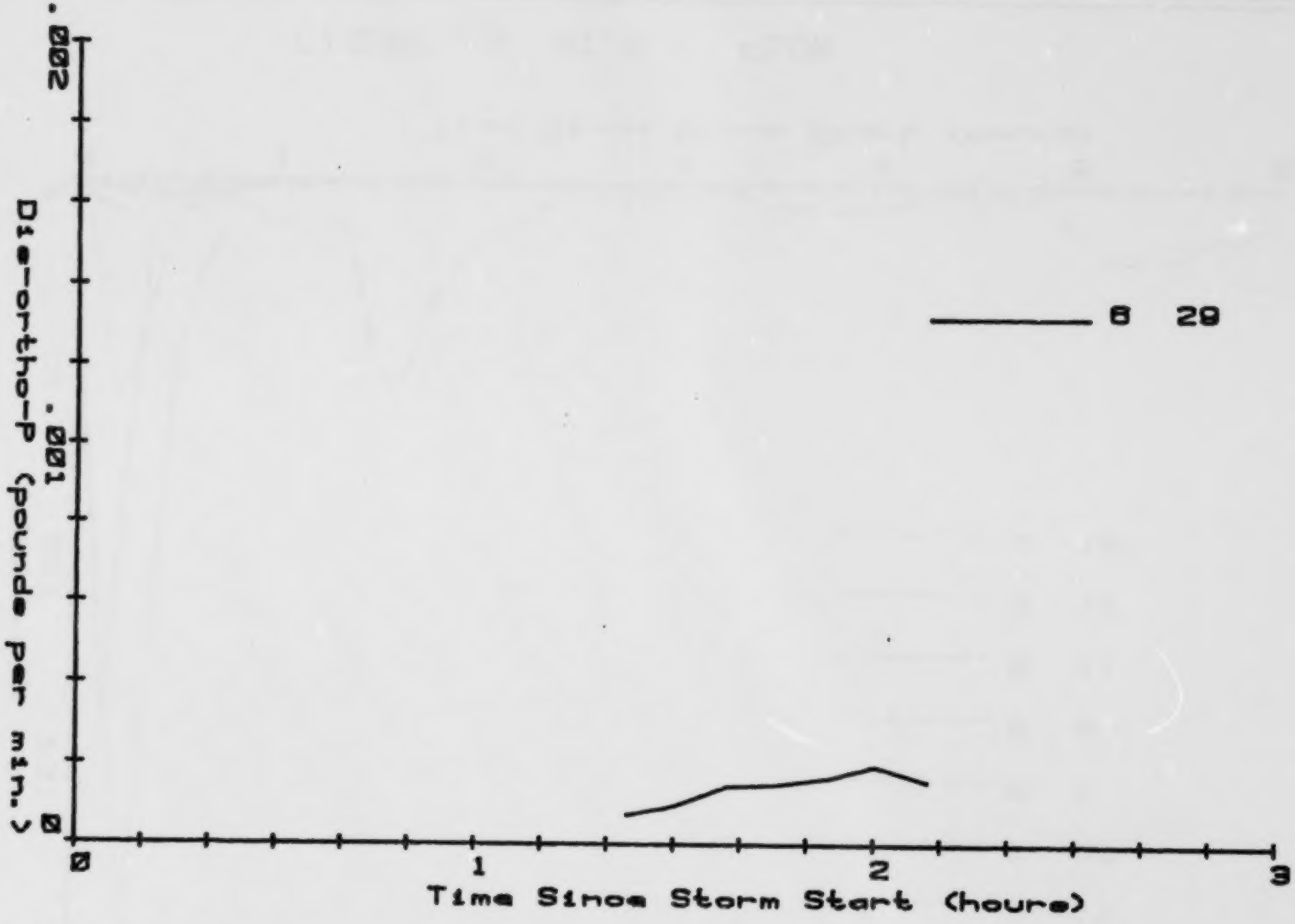

FIGURE A-27 JORDAN POND - Dis-ortho-P

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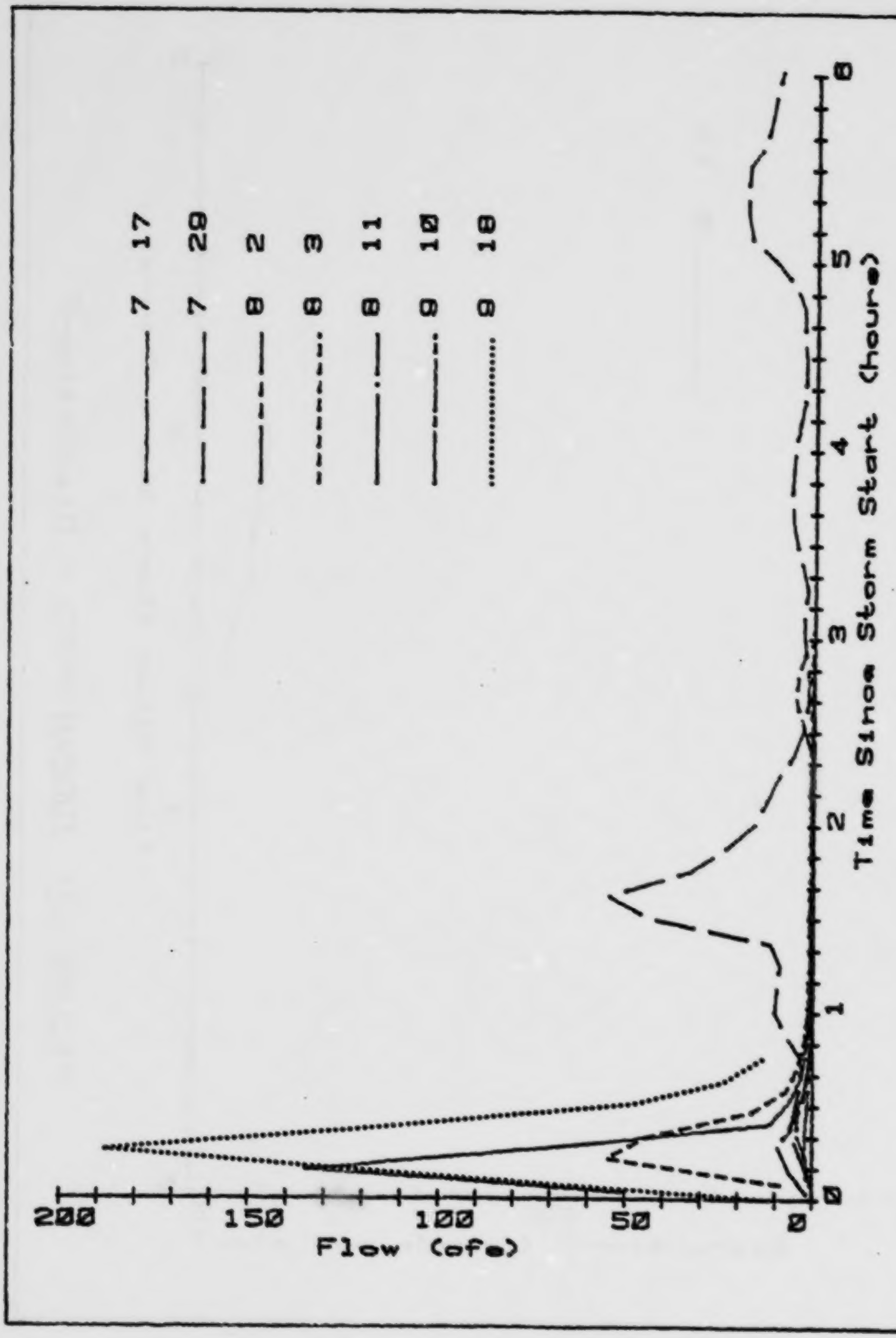

FIGURE A-28 RT.9 - FLOW

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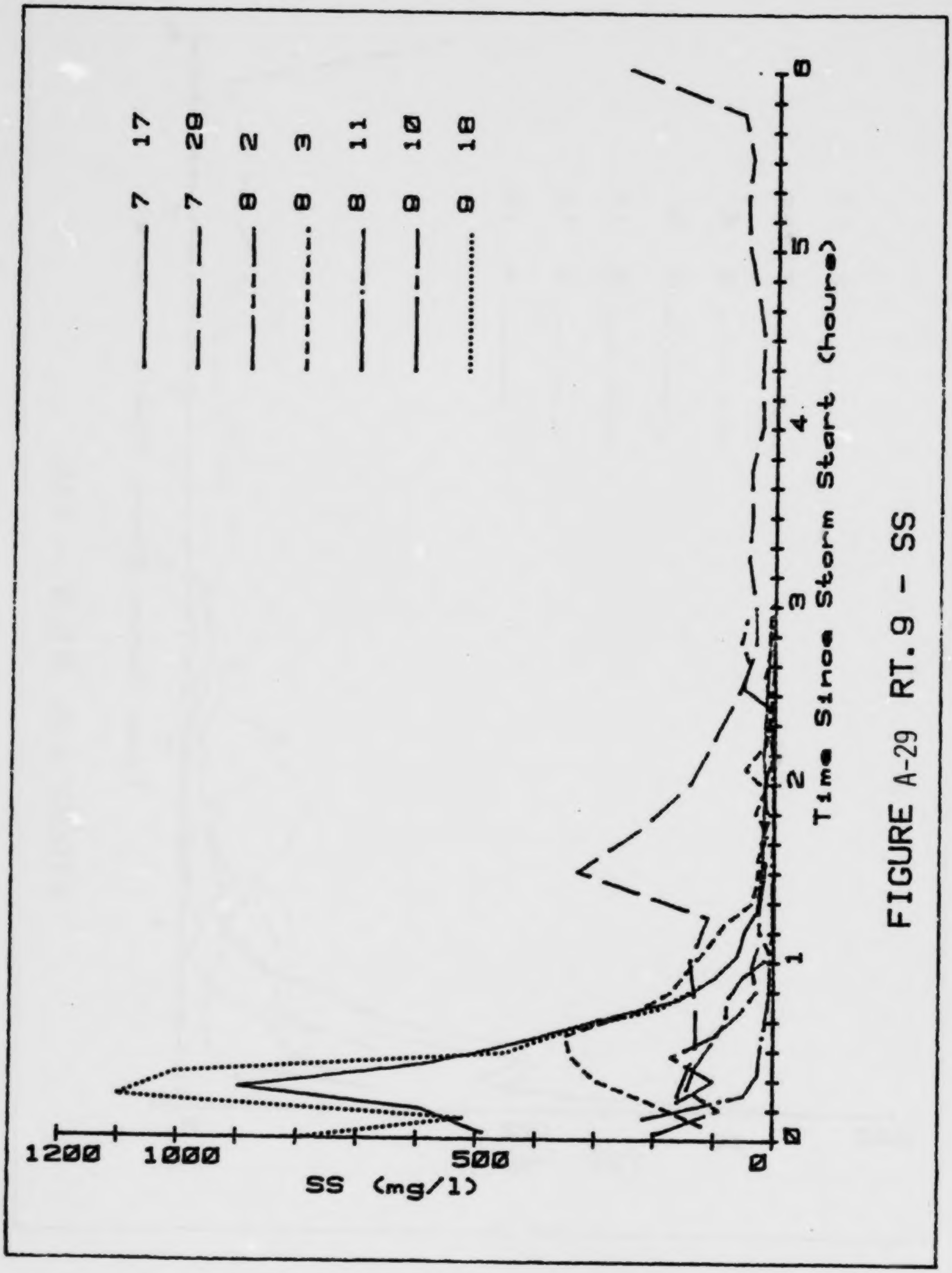

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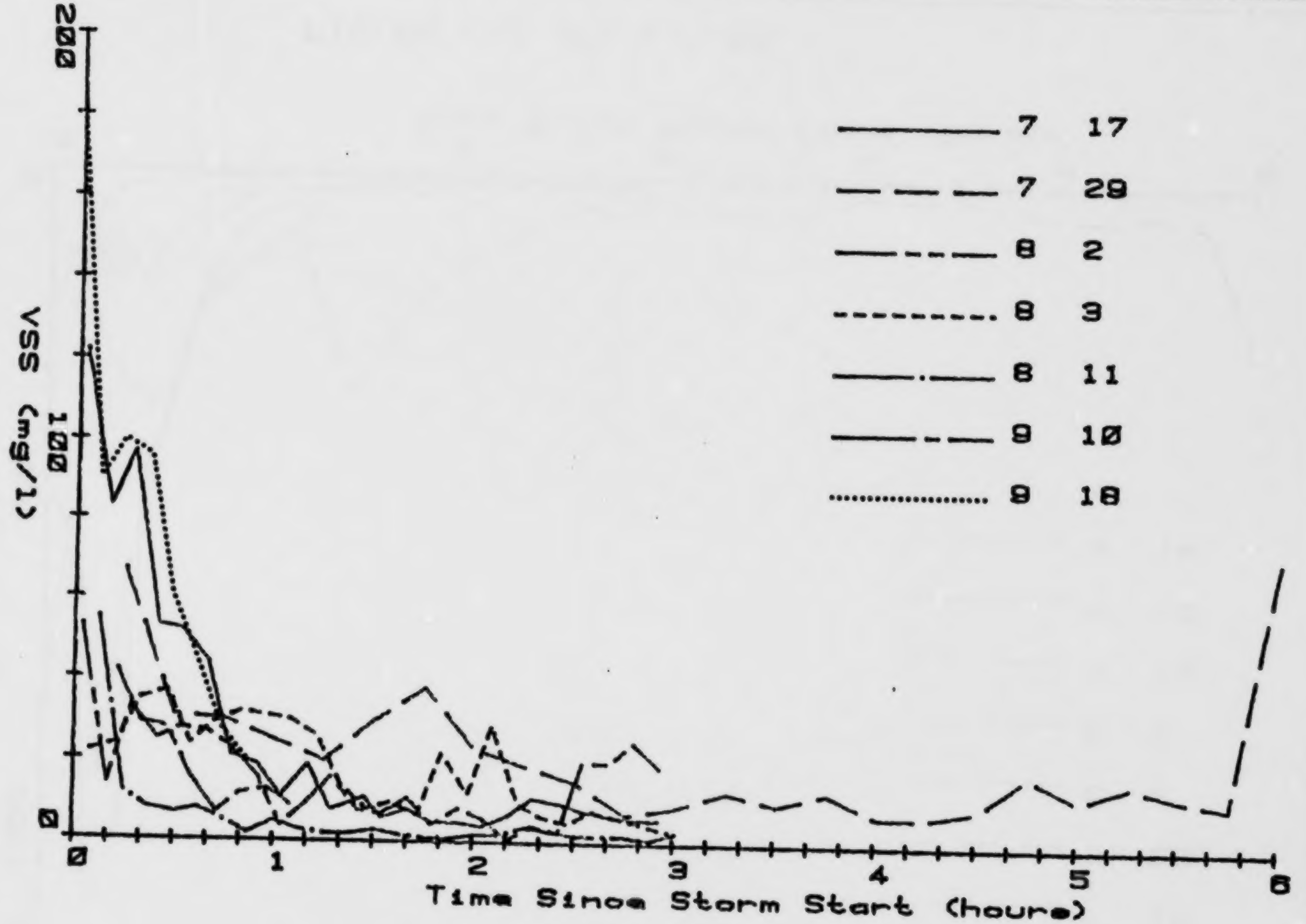

FIGURE A-30 RT. 9 - VSS

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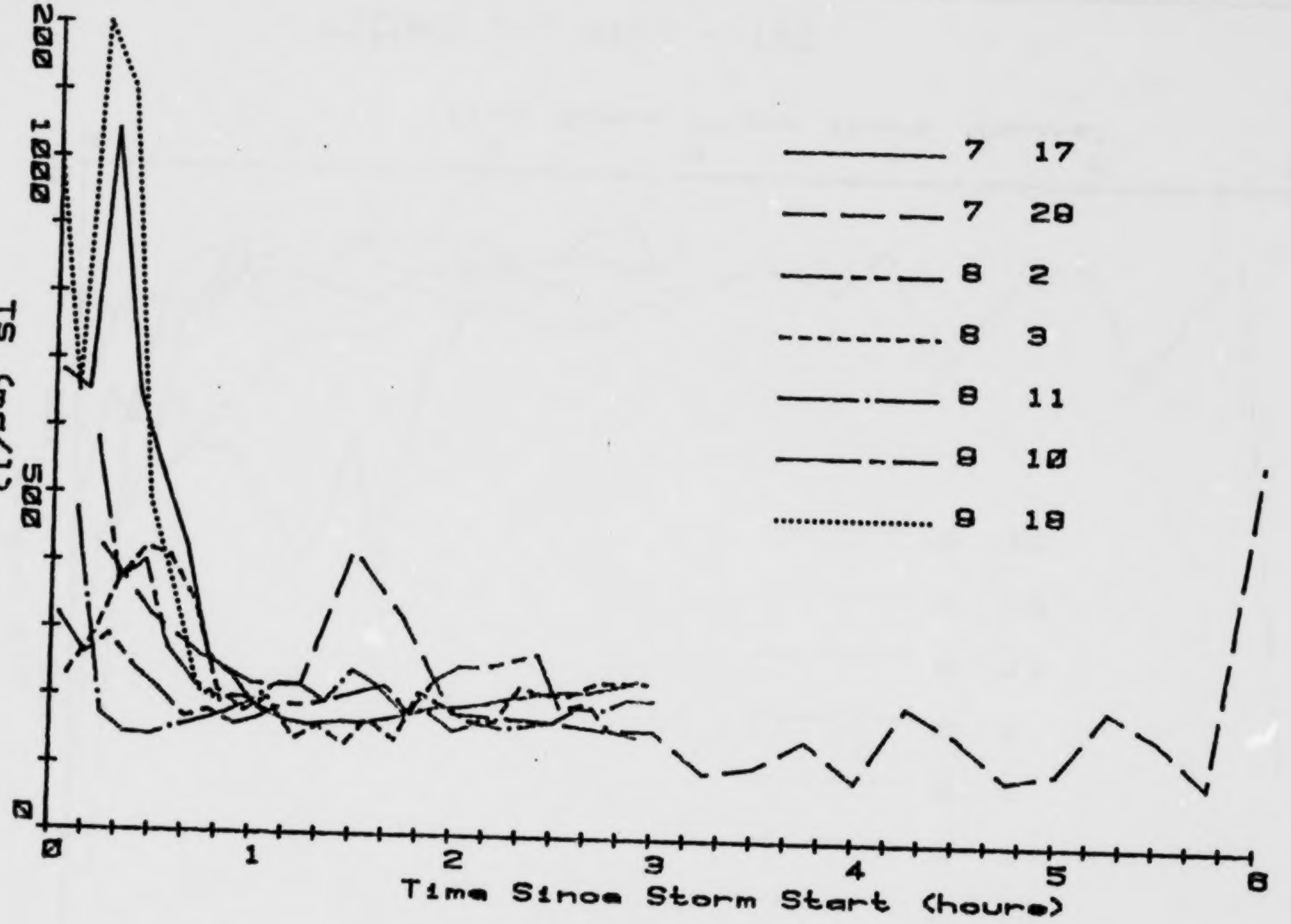

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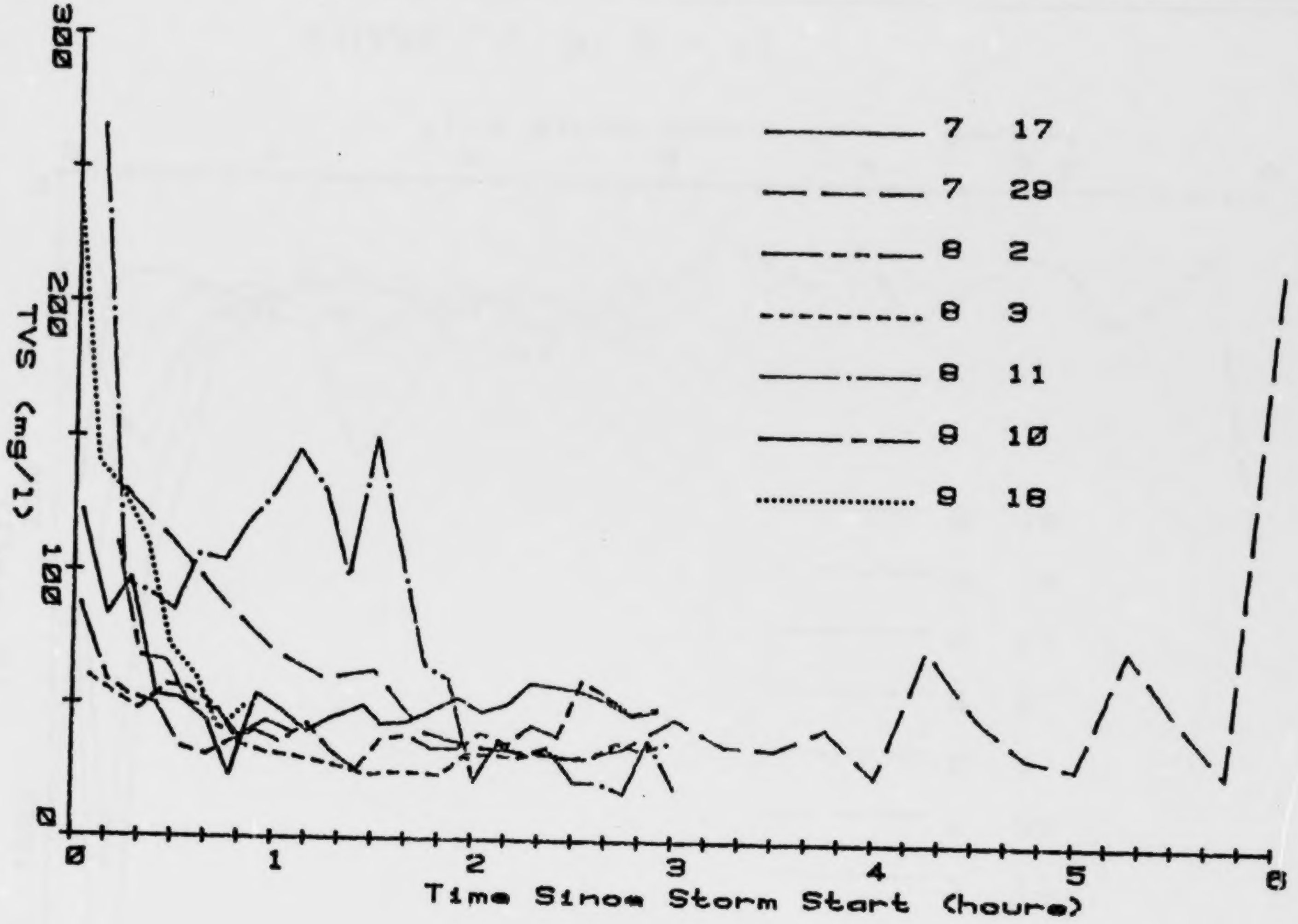

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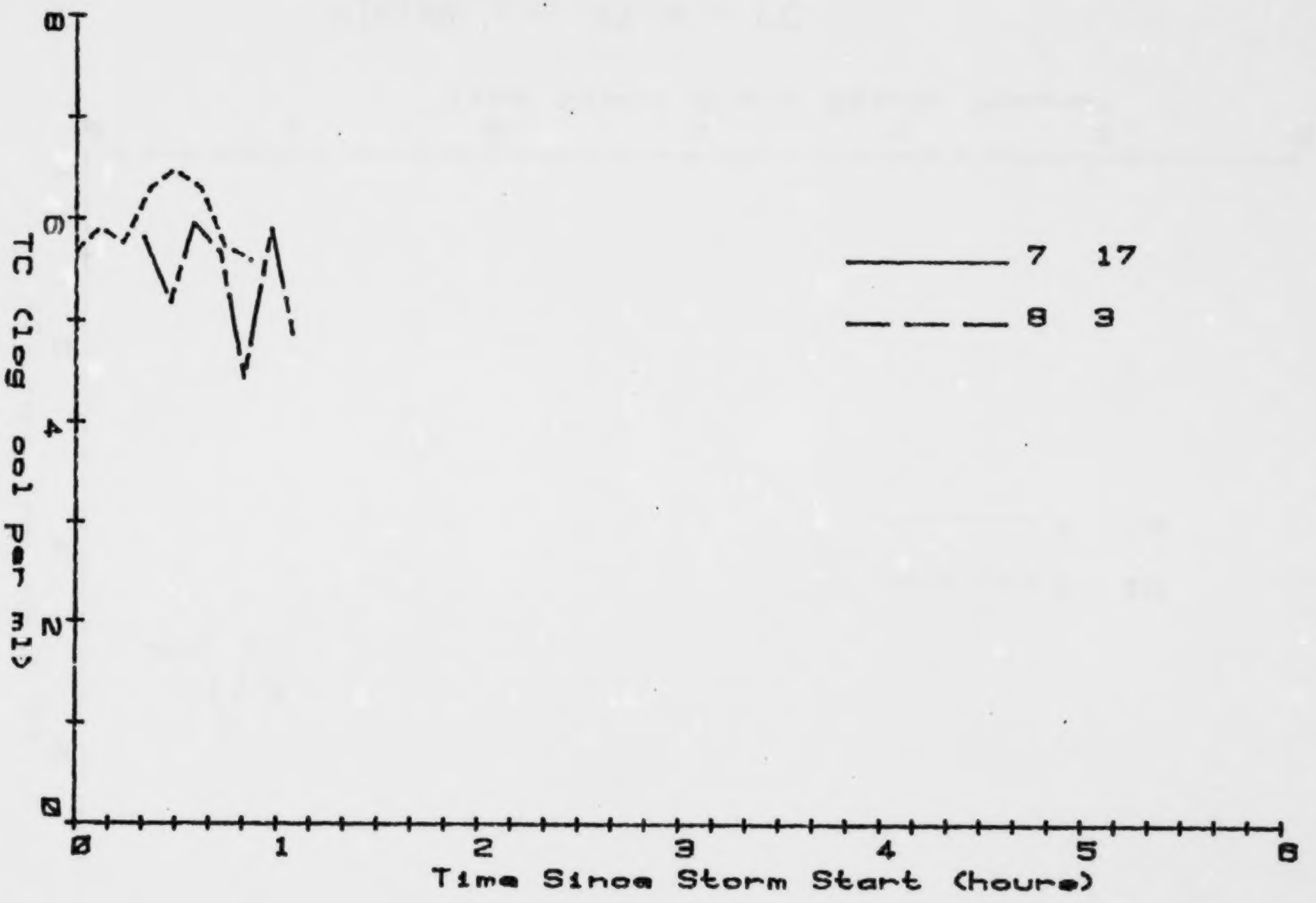

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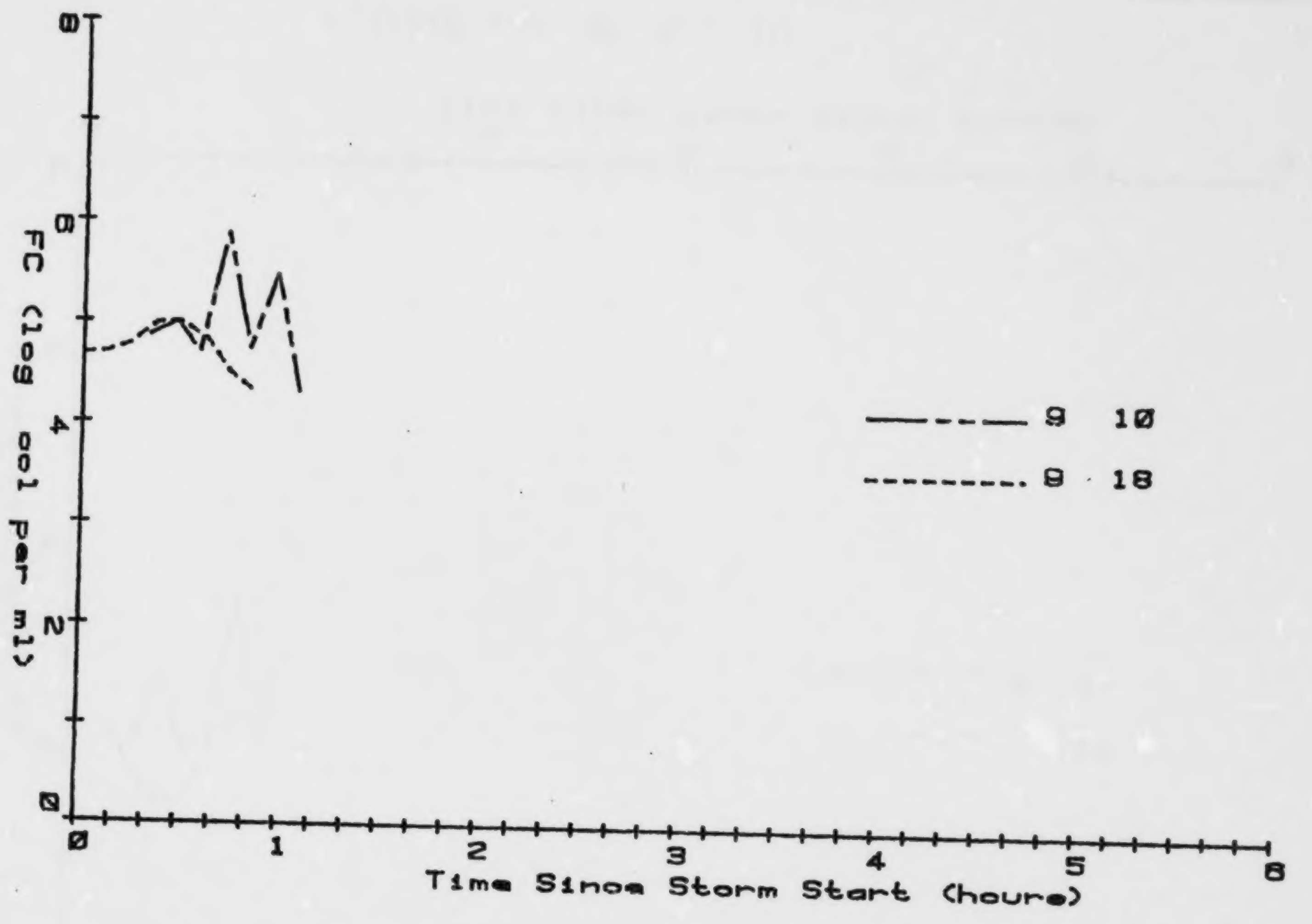

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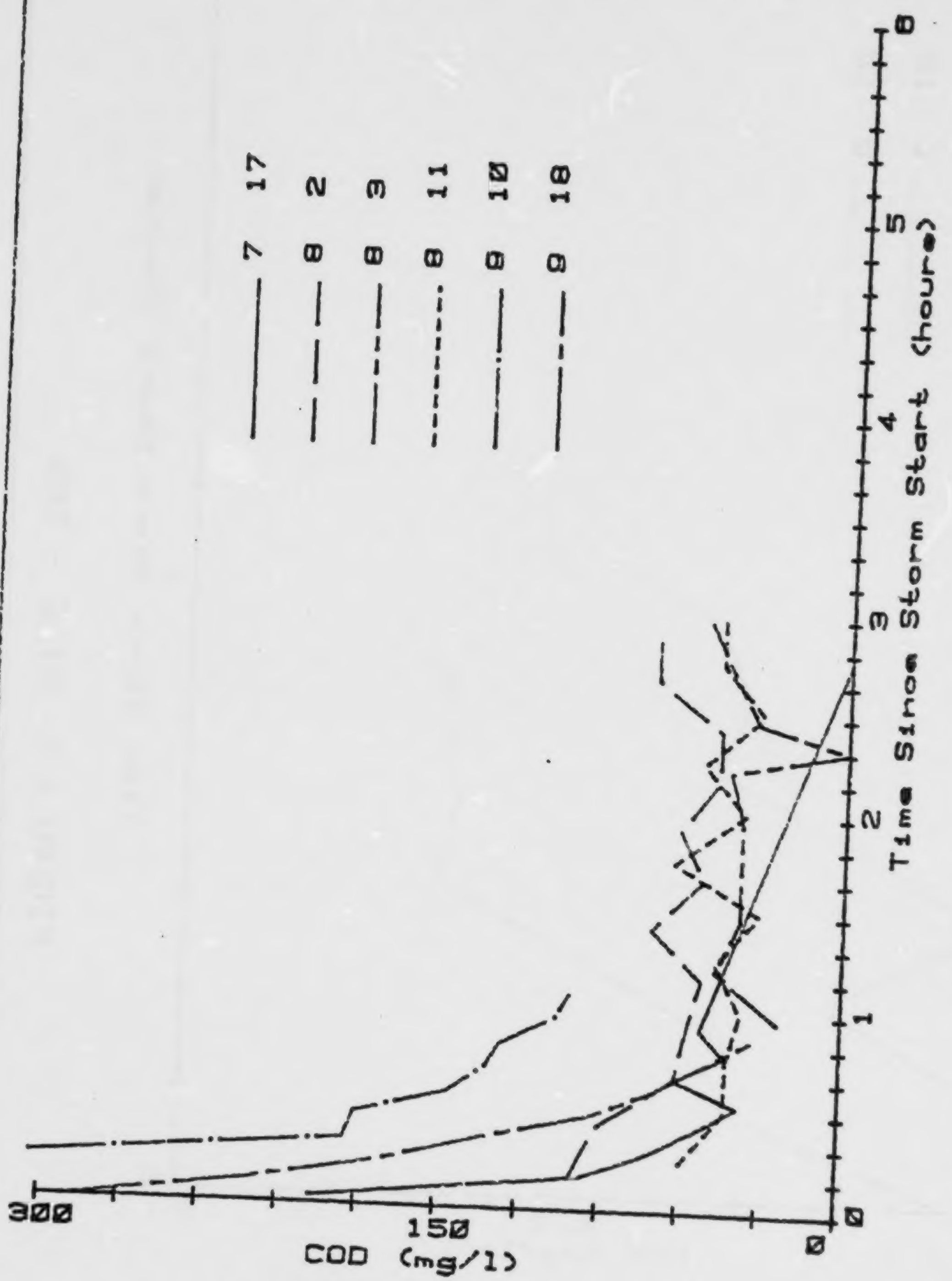

FIGURE A-35 RT. 9 - COD

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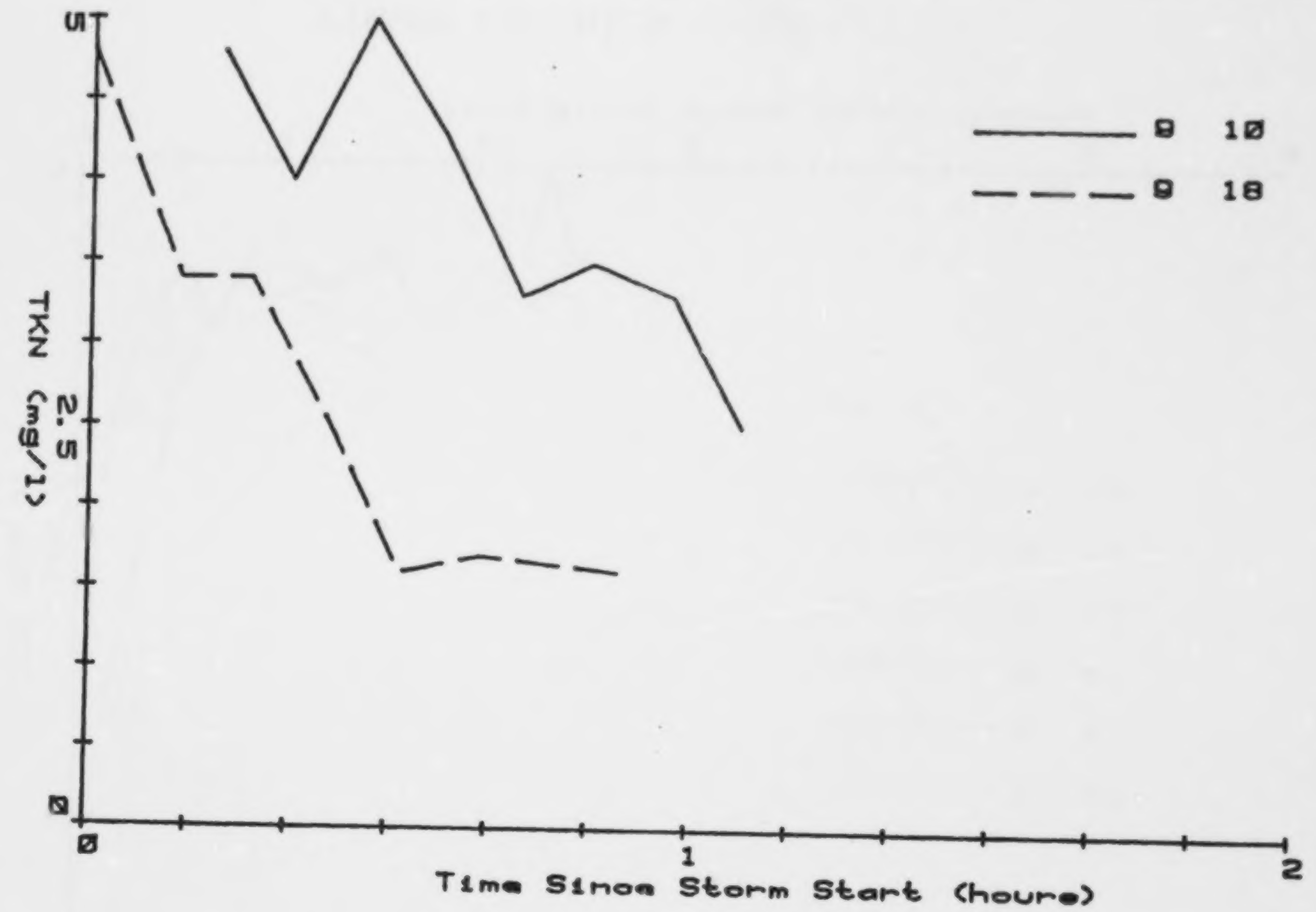

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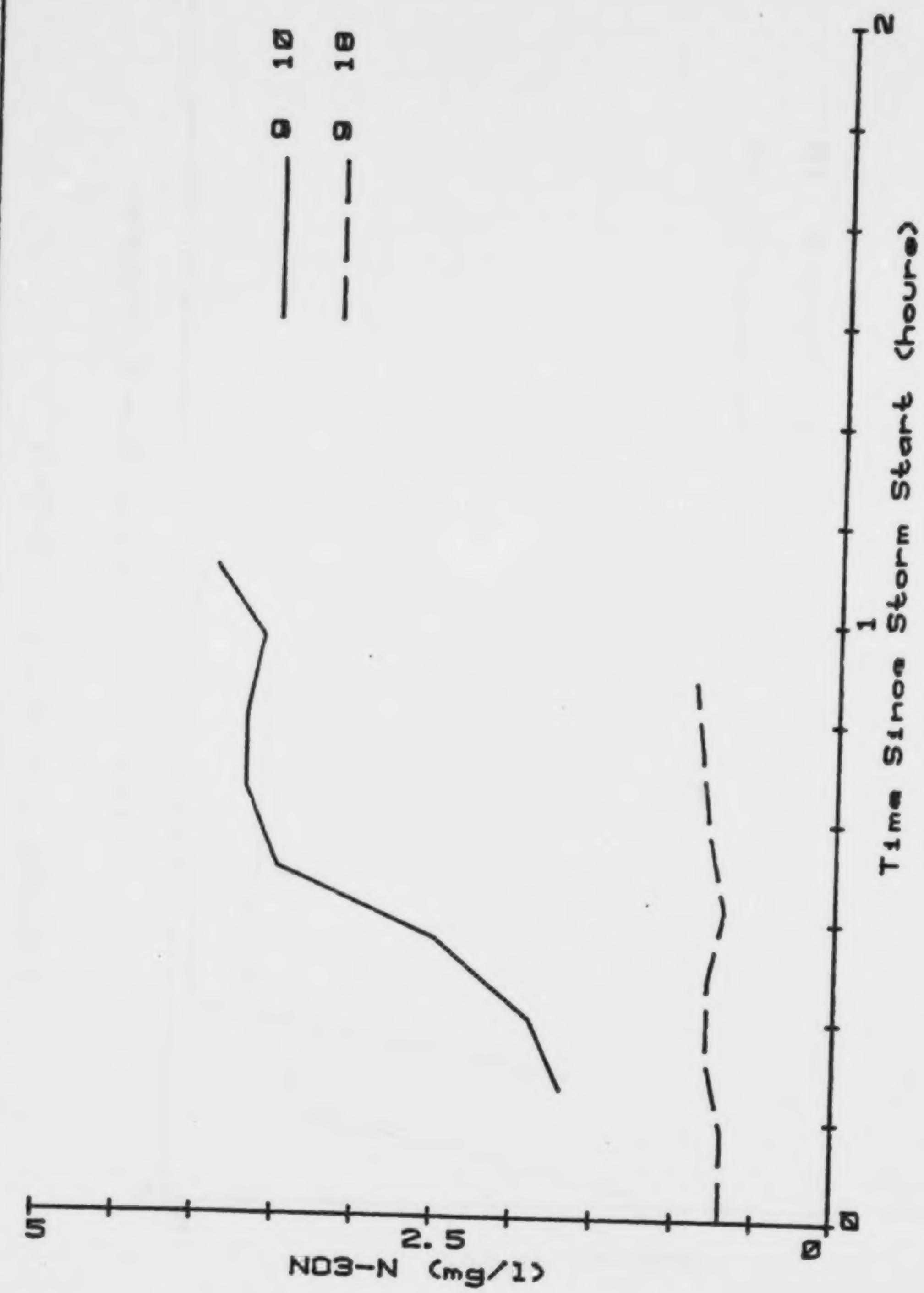
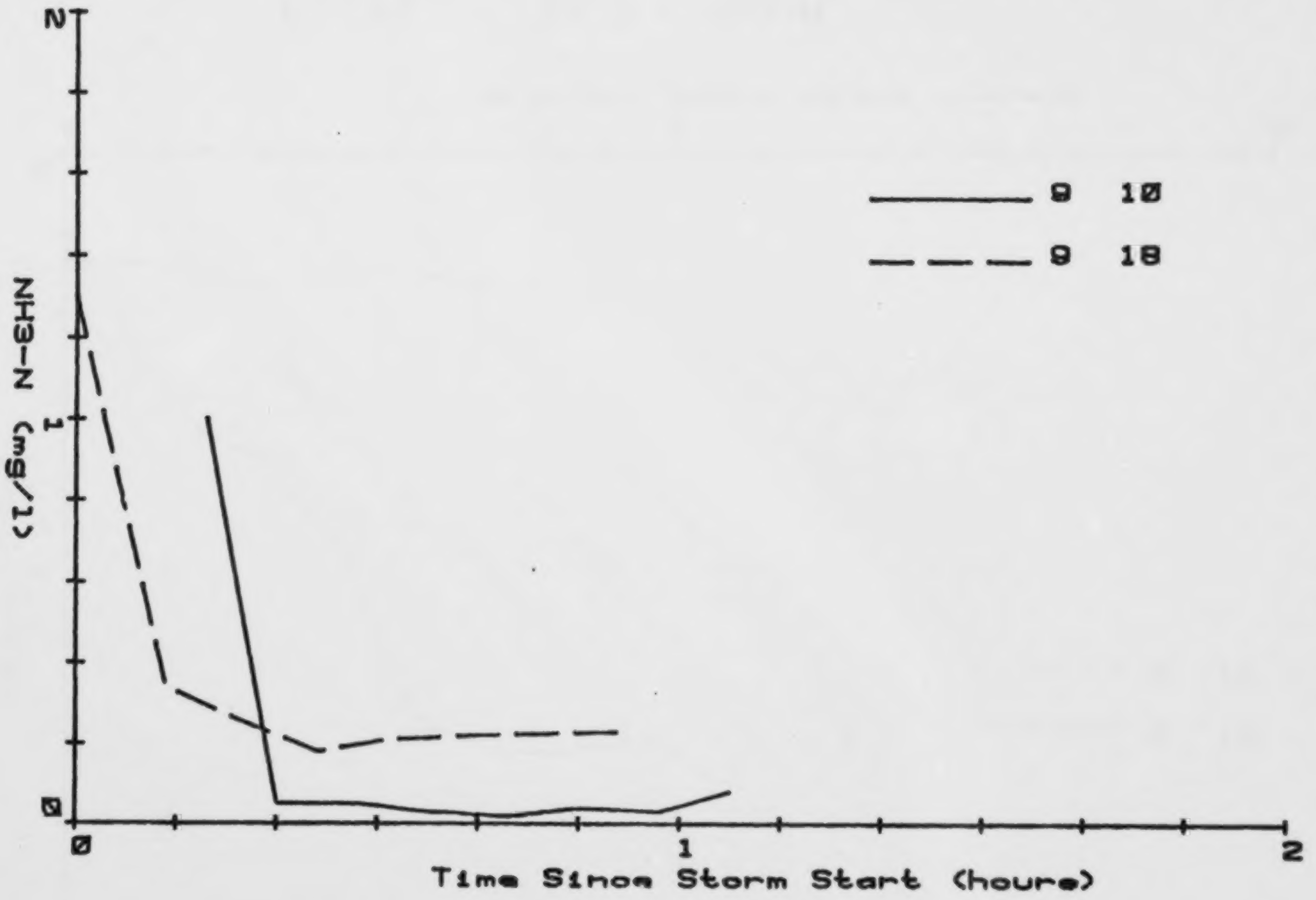


FIGURE A-37 RT. 9 - NO3-N



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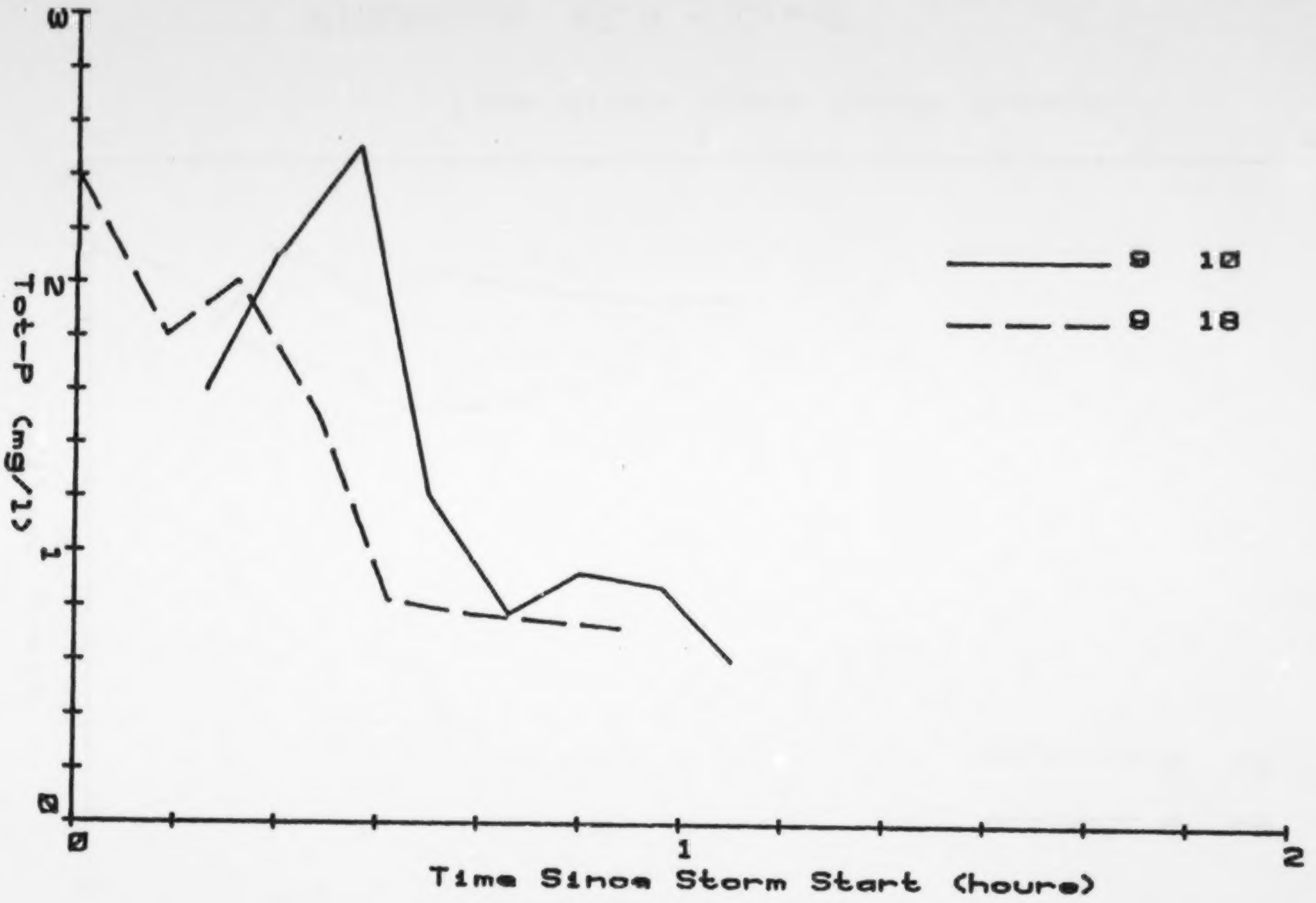

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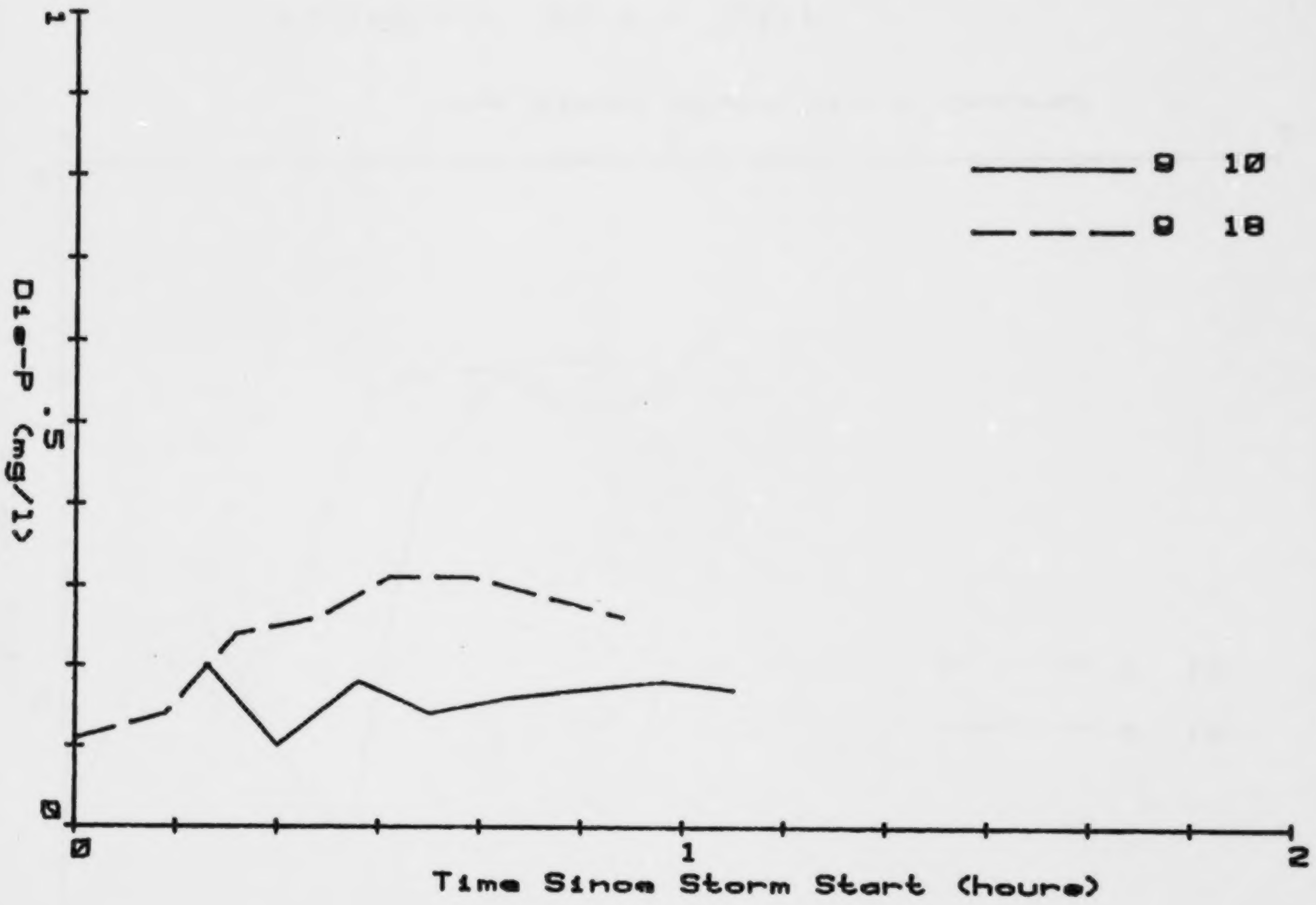

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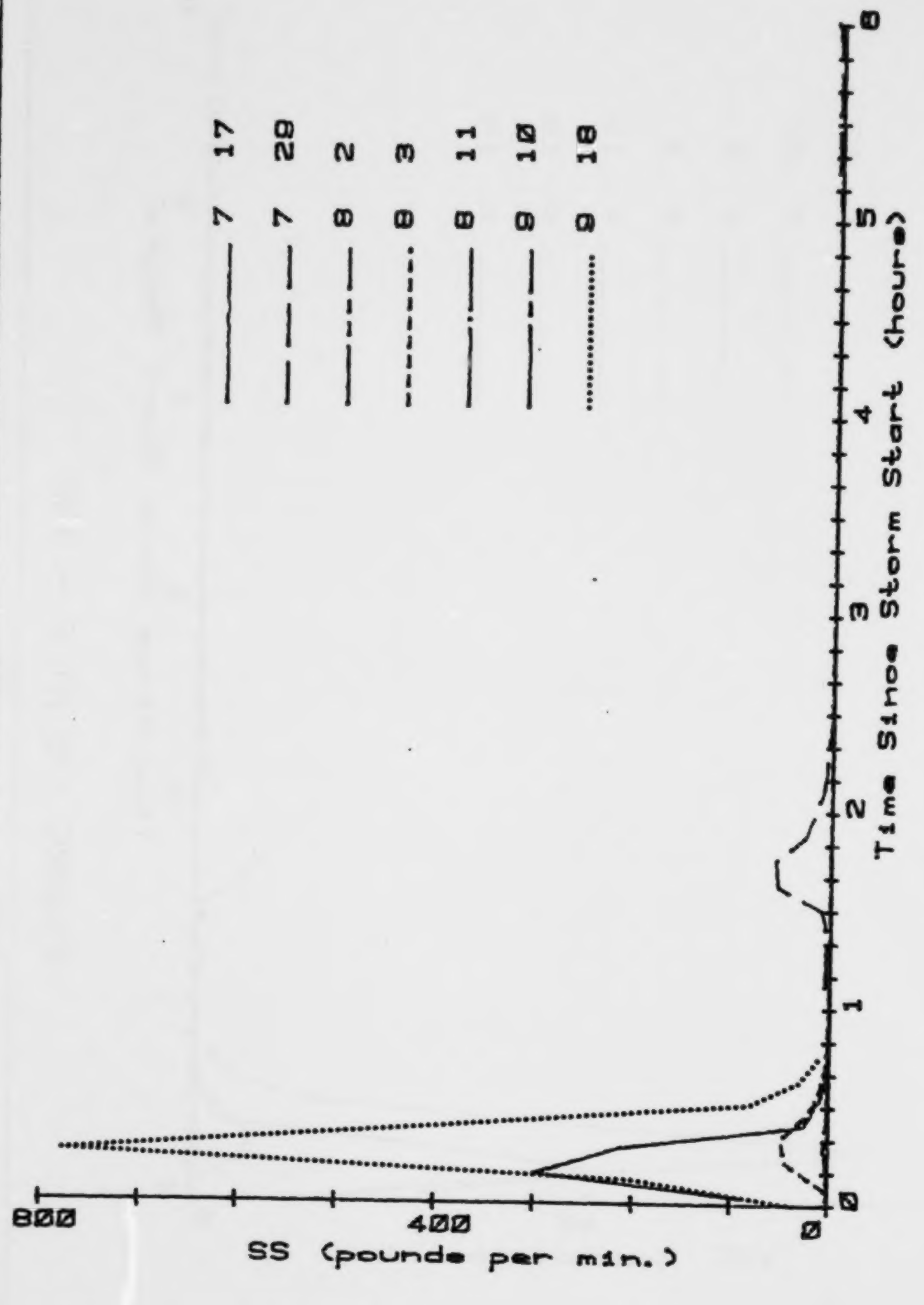

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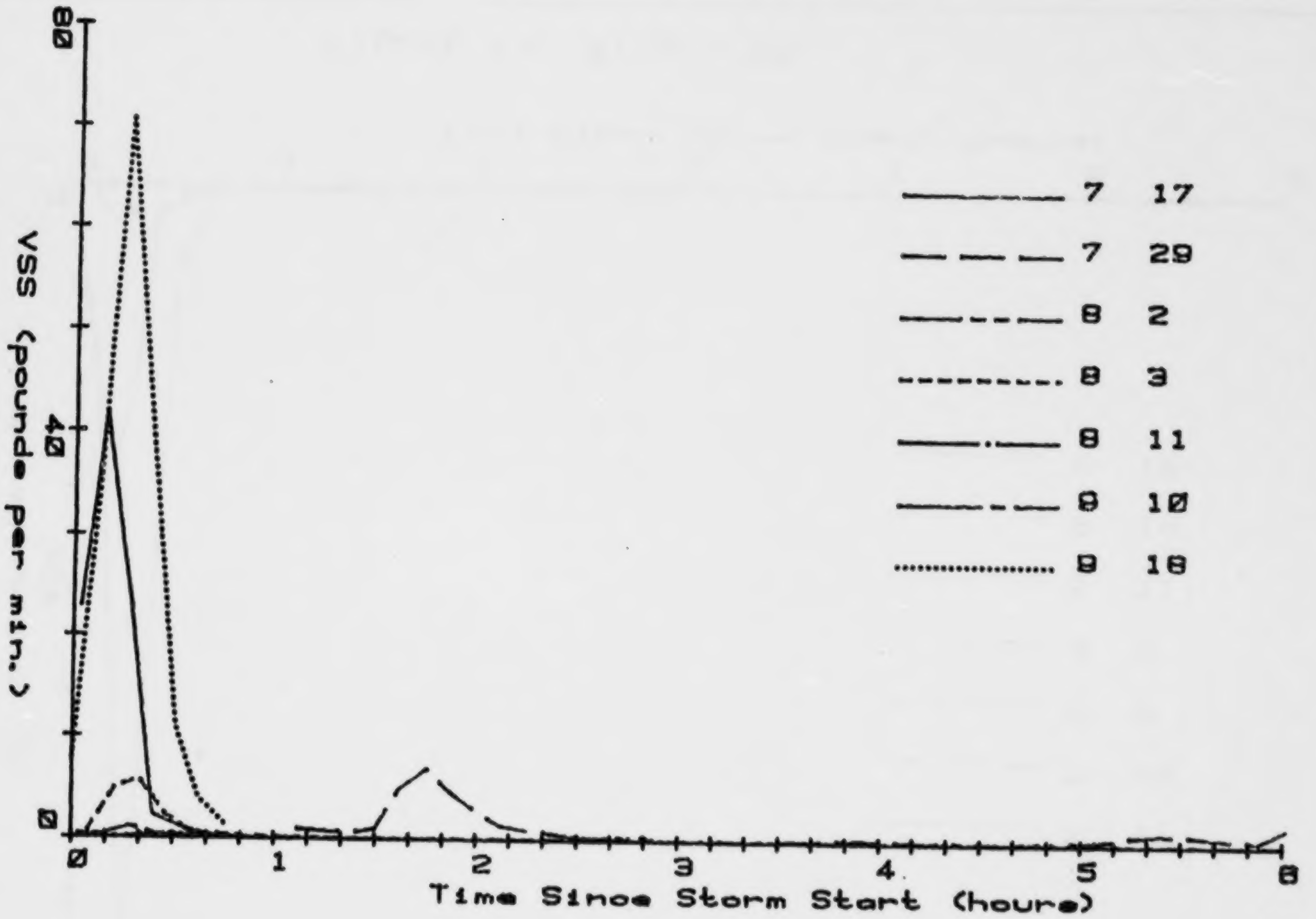

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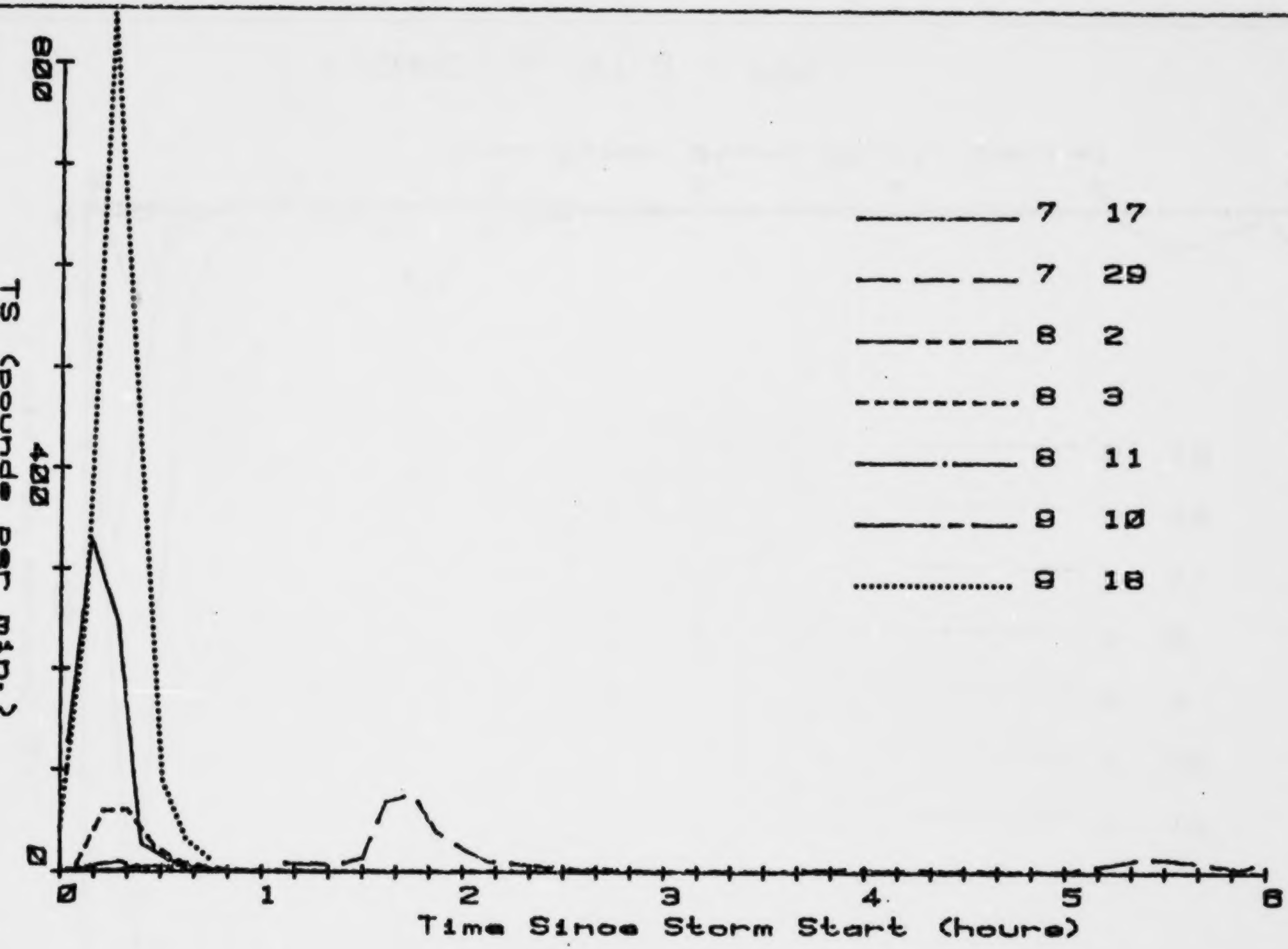

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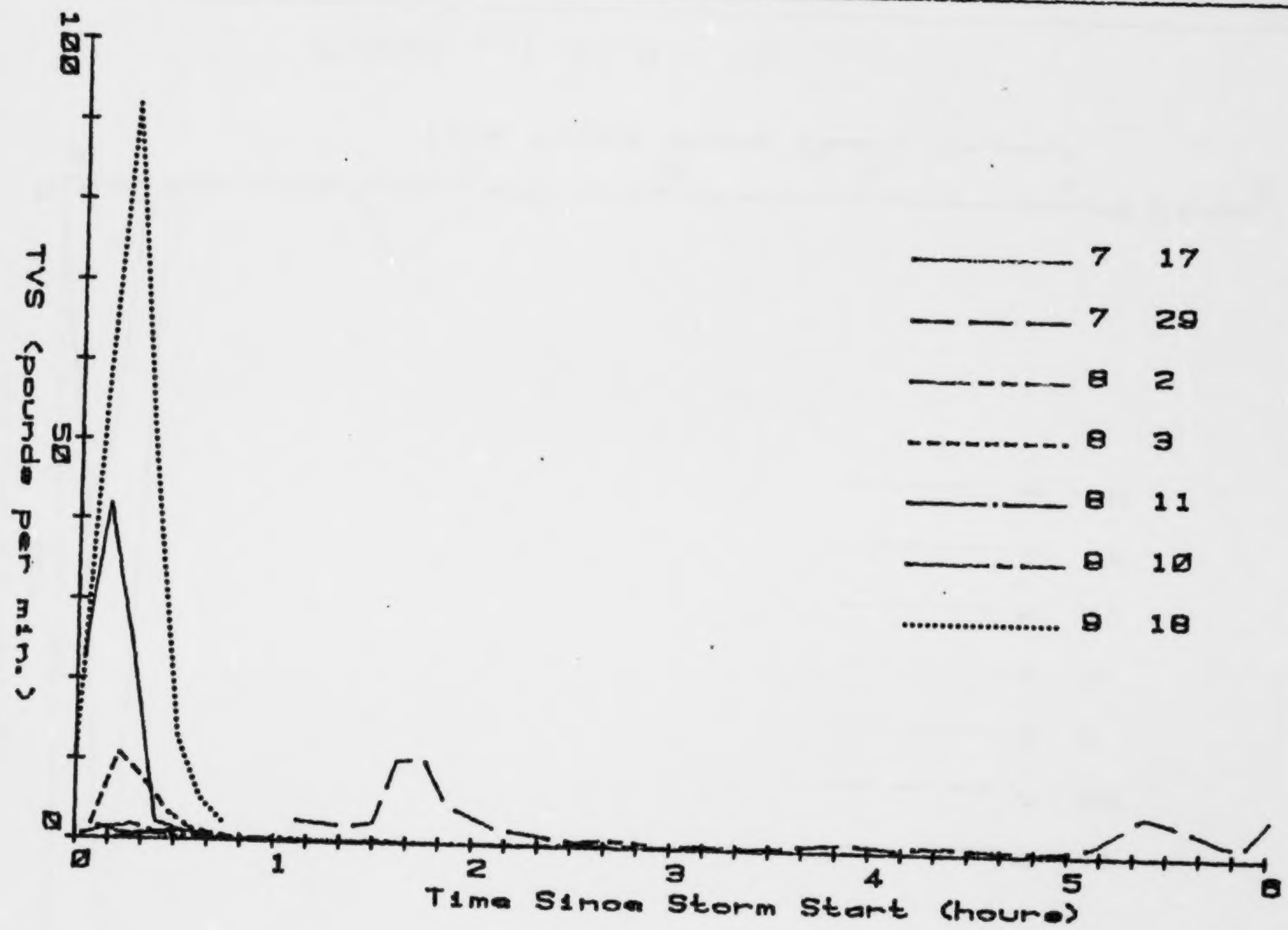

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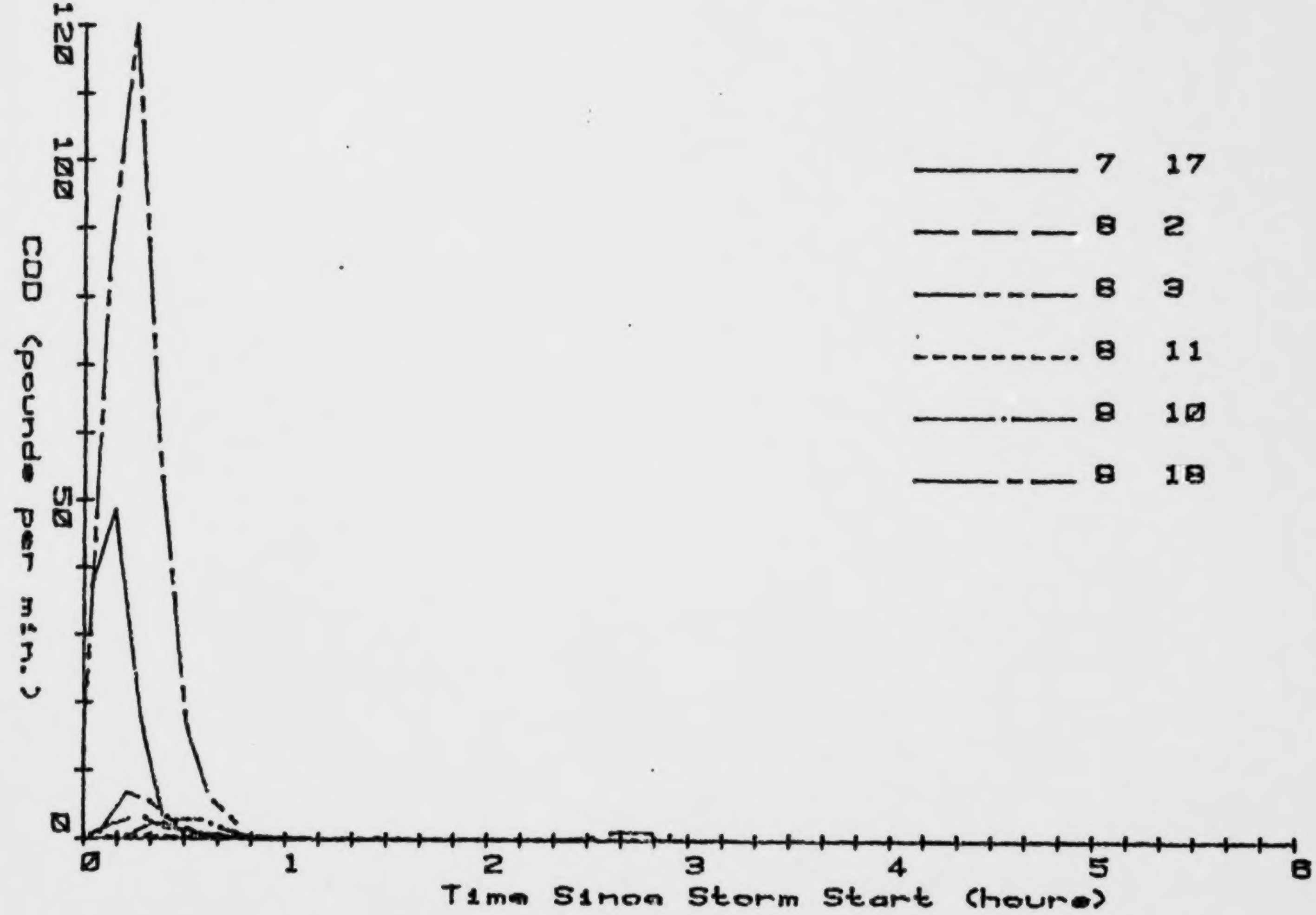

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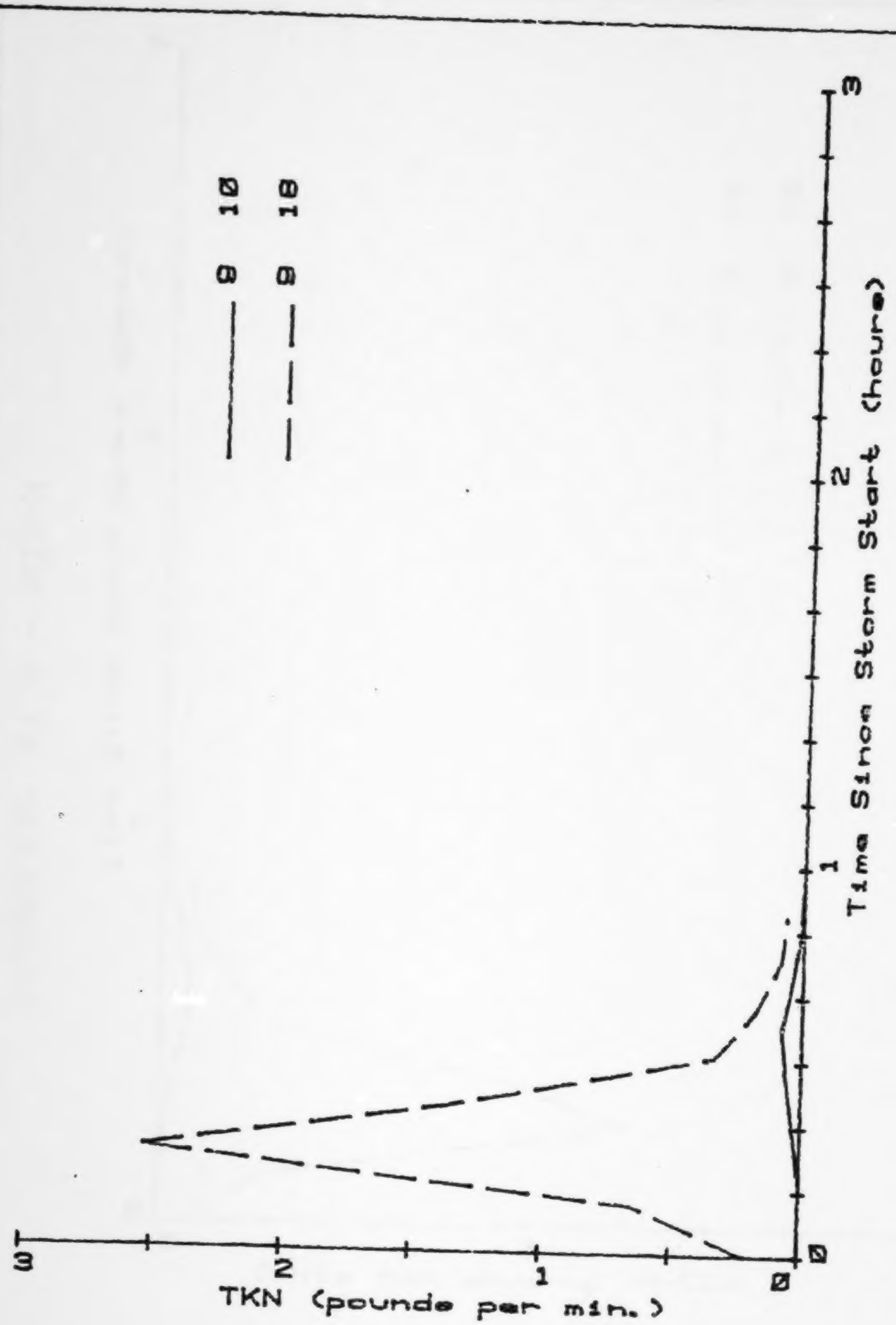

FIGURE A-46 RT. 9 - TKN

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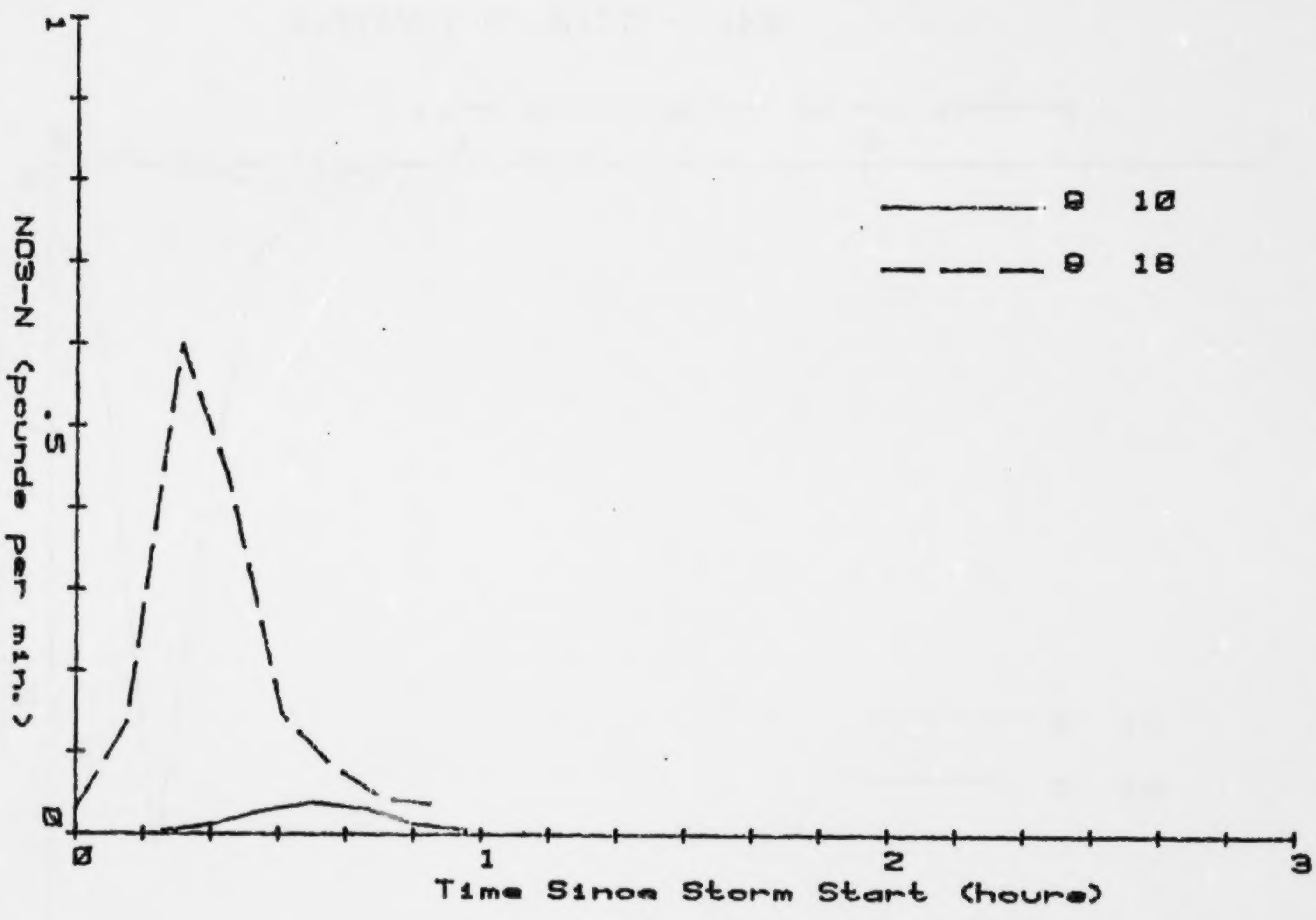

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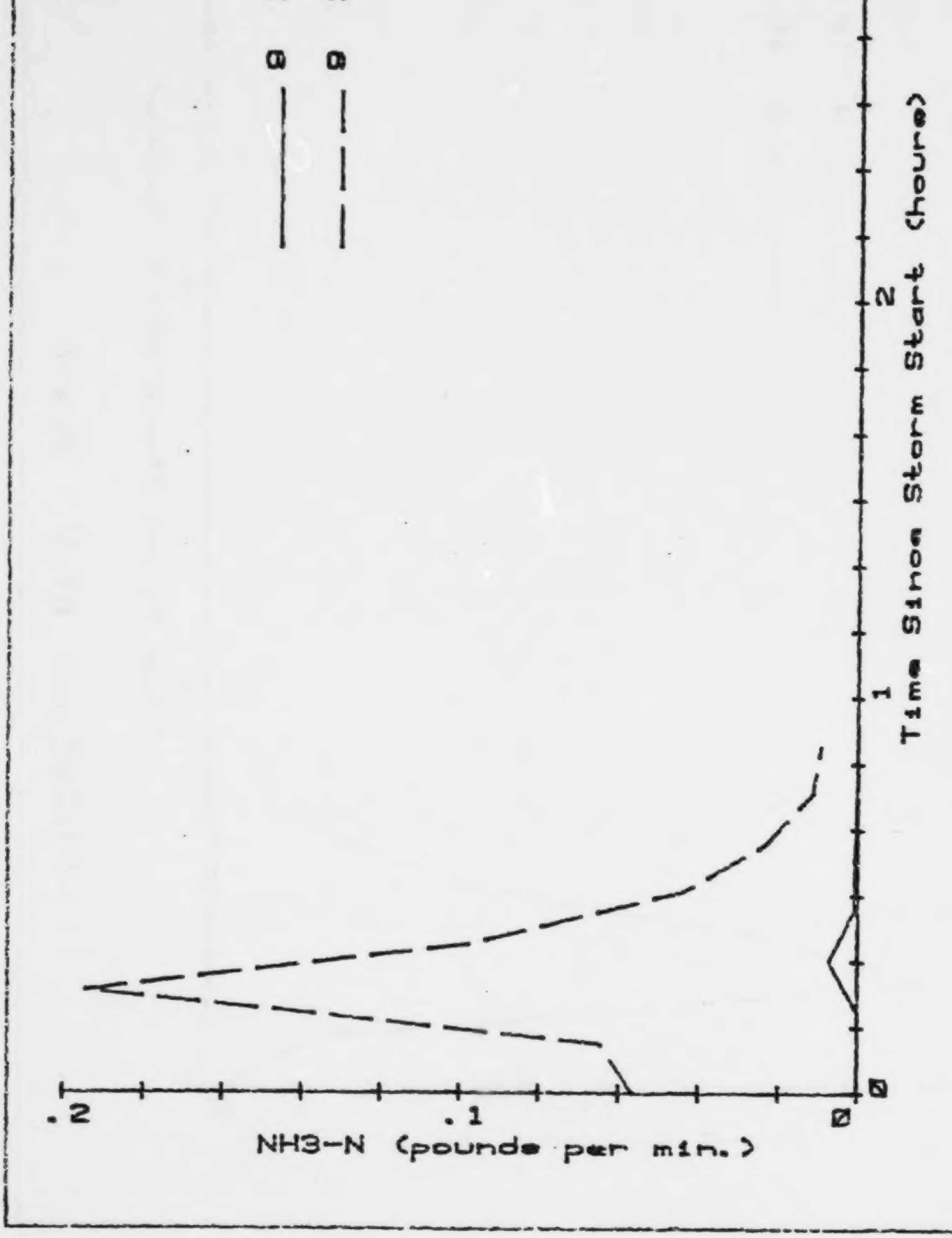

FIGURE A-48 RT. 9 - NH3-N

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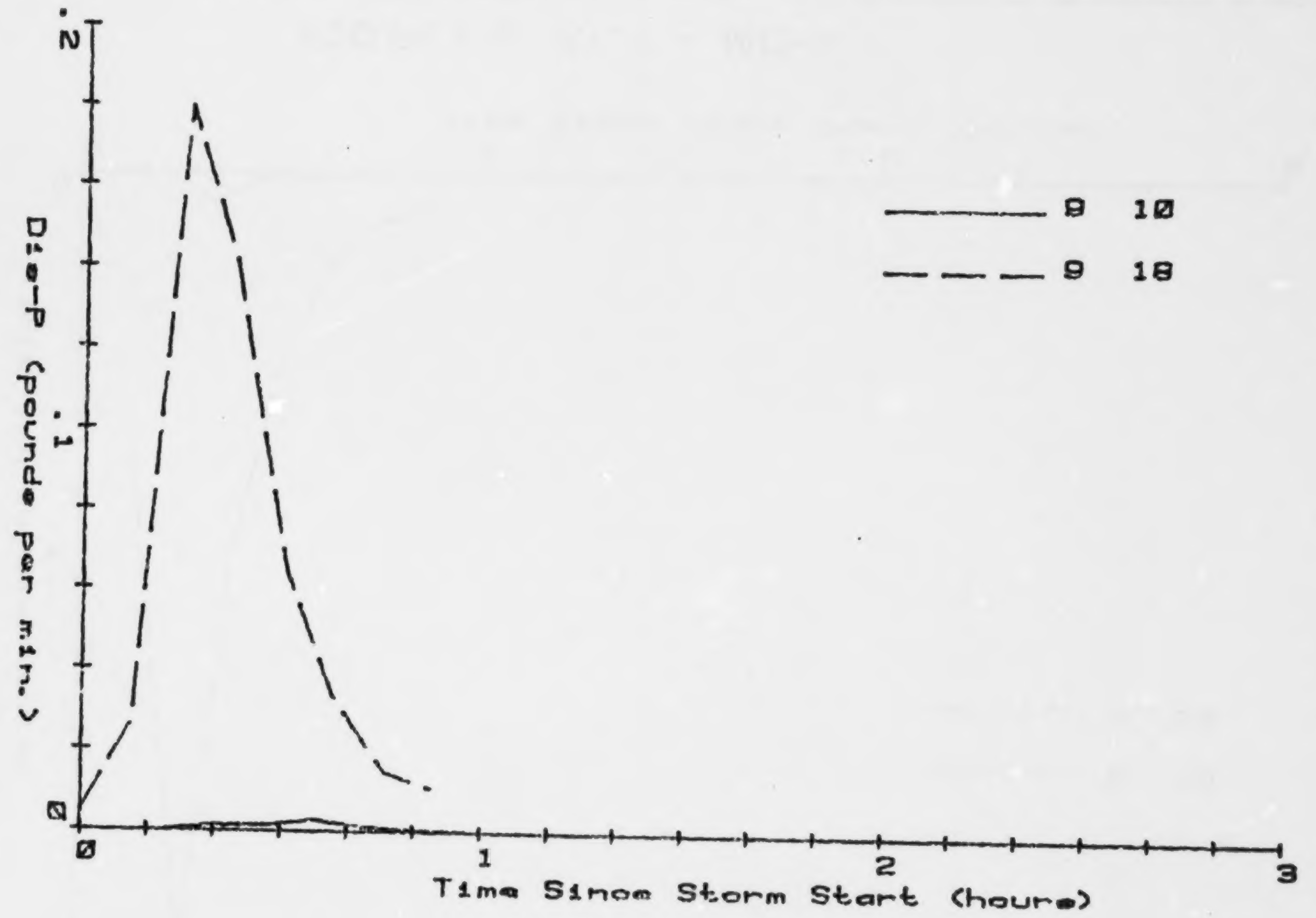

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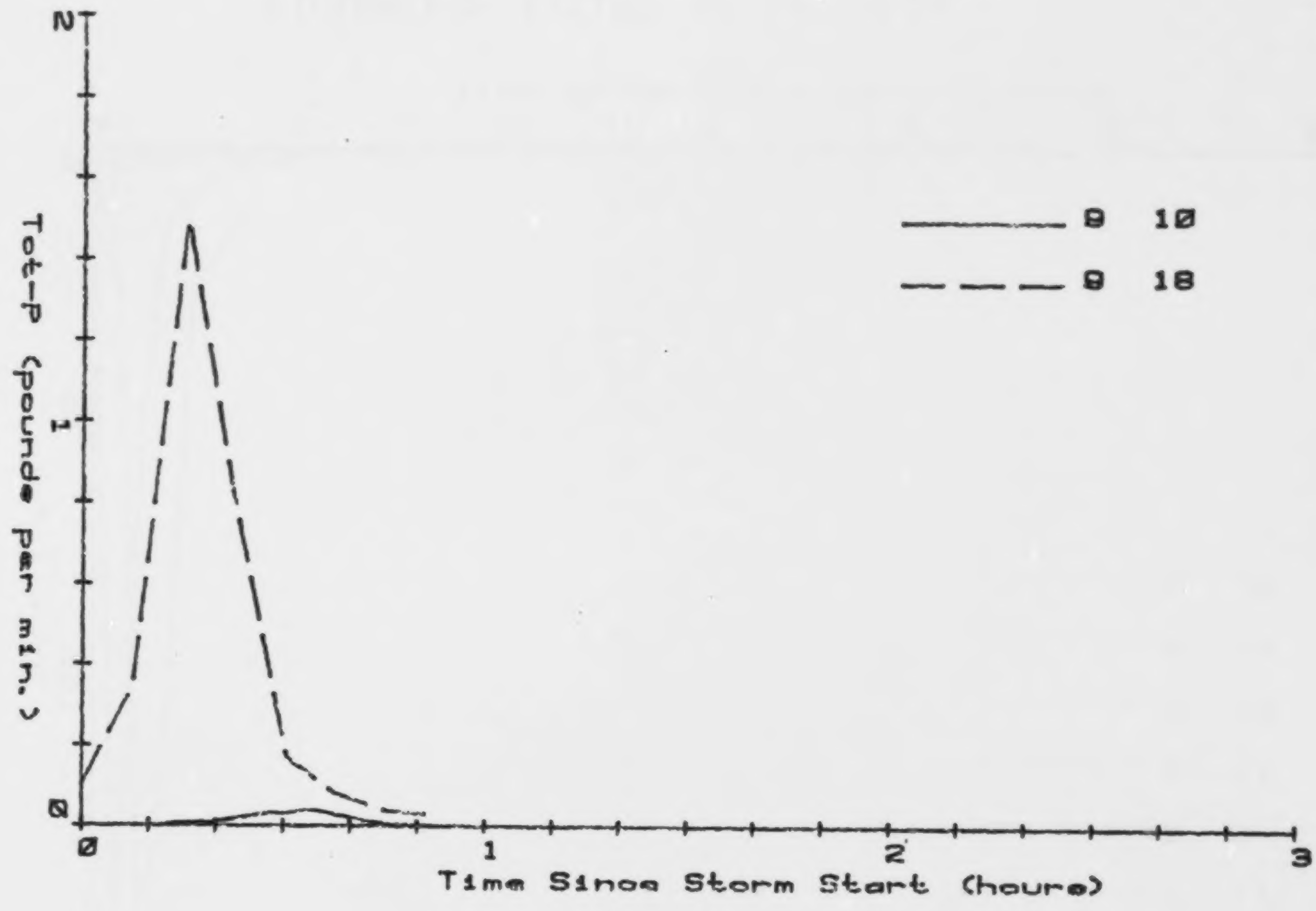


FIGURE A-50 RT. 9 - Tot-P

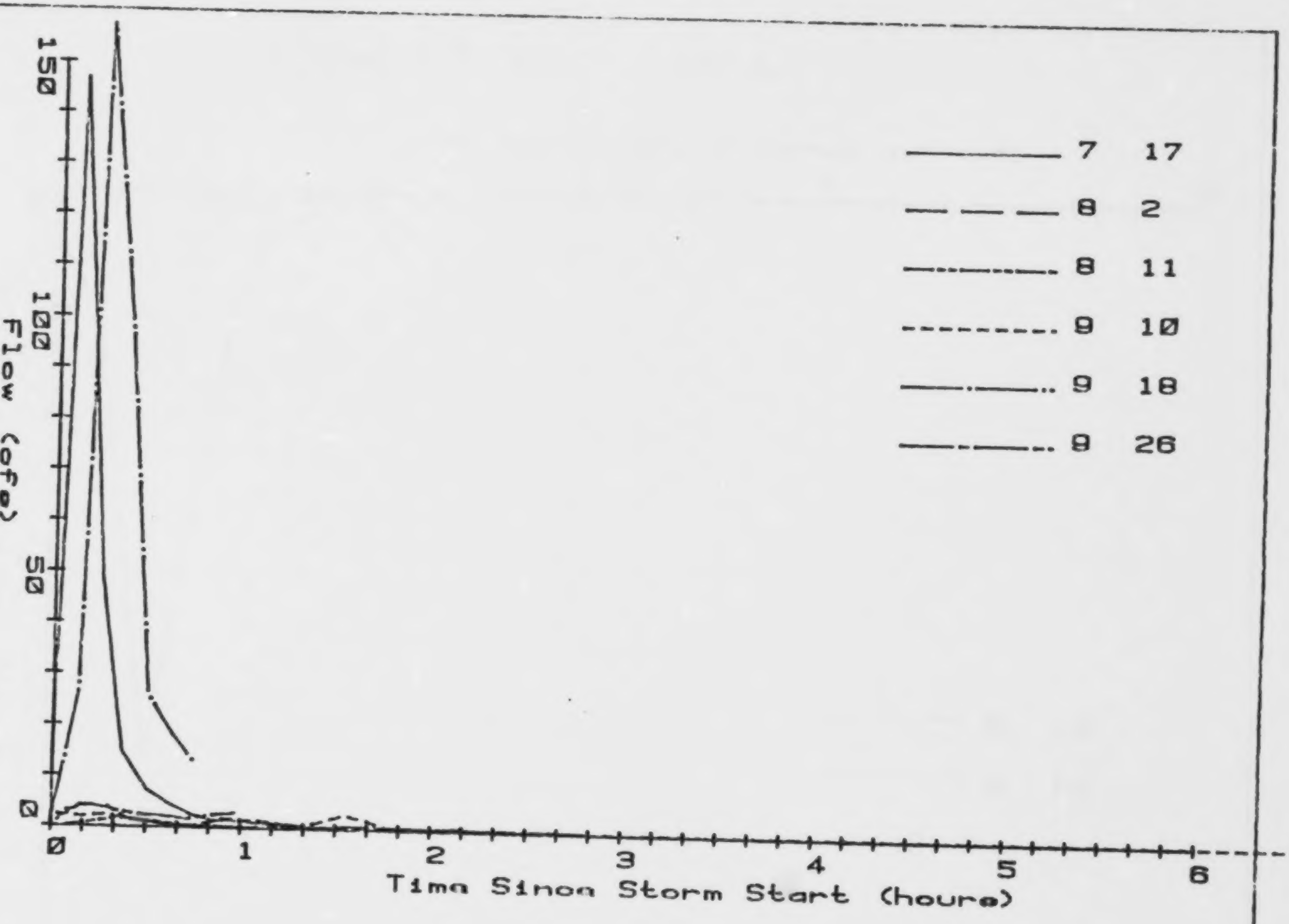
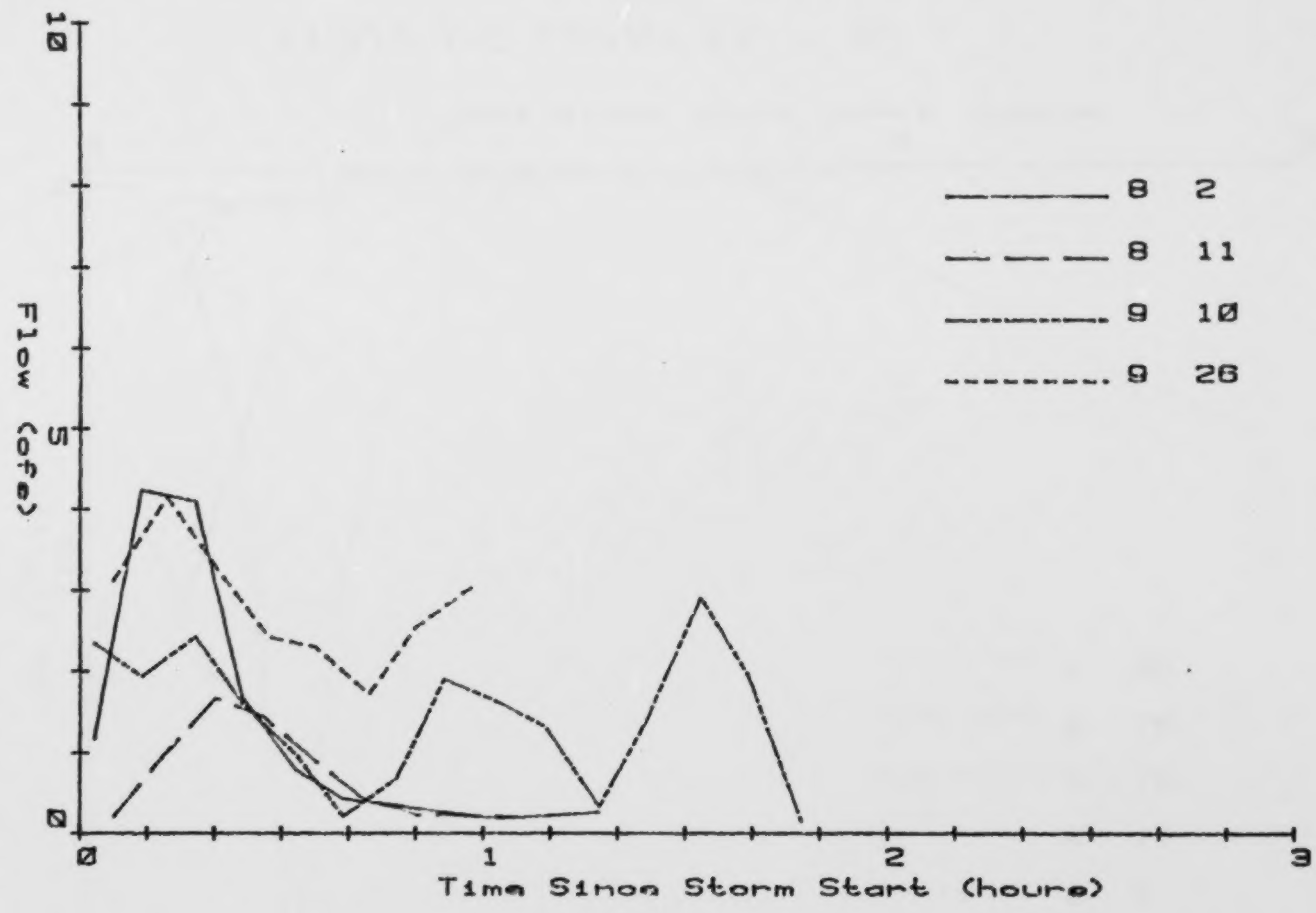


FIGURE A-51 LOCUST ST. - FLOW



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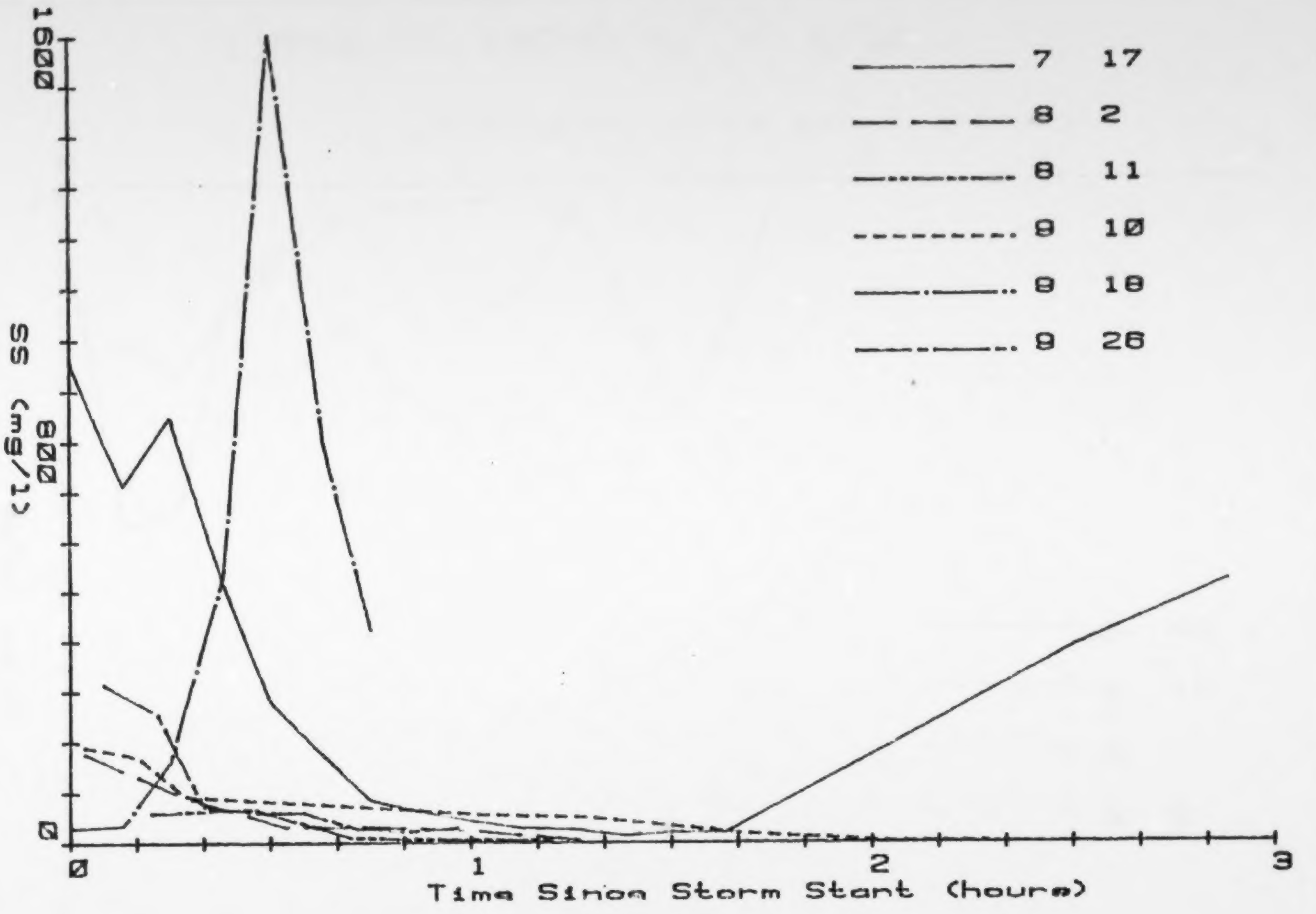

FIGURE A-53 LOCUST ST. - SS

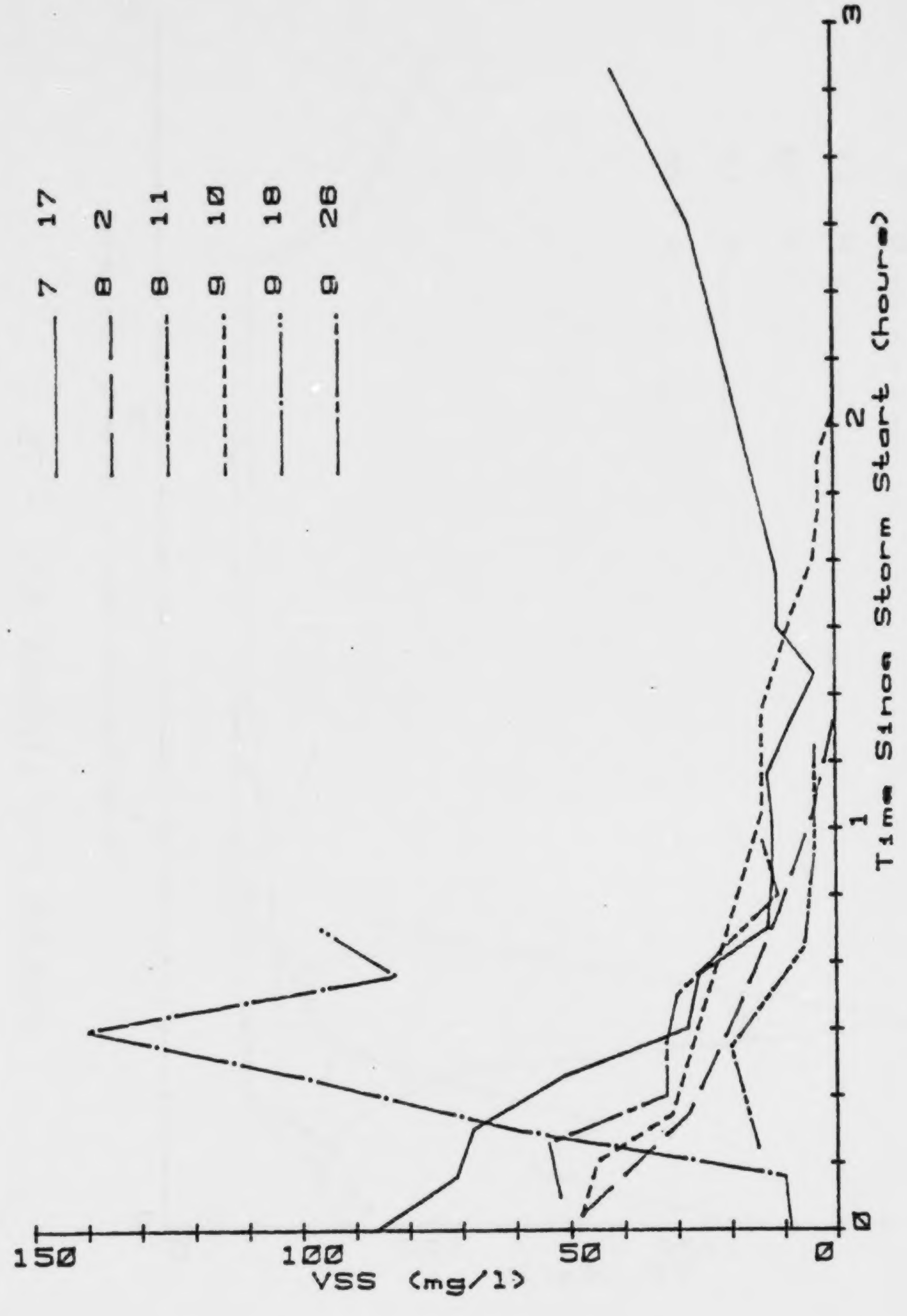

FIGURE A-54 LOCUST ST. - VSS

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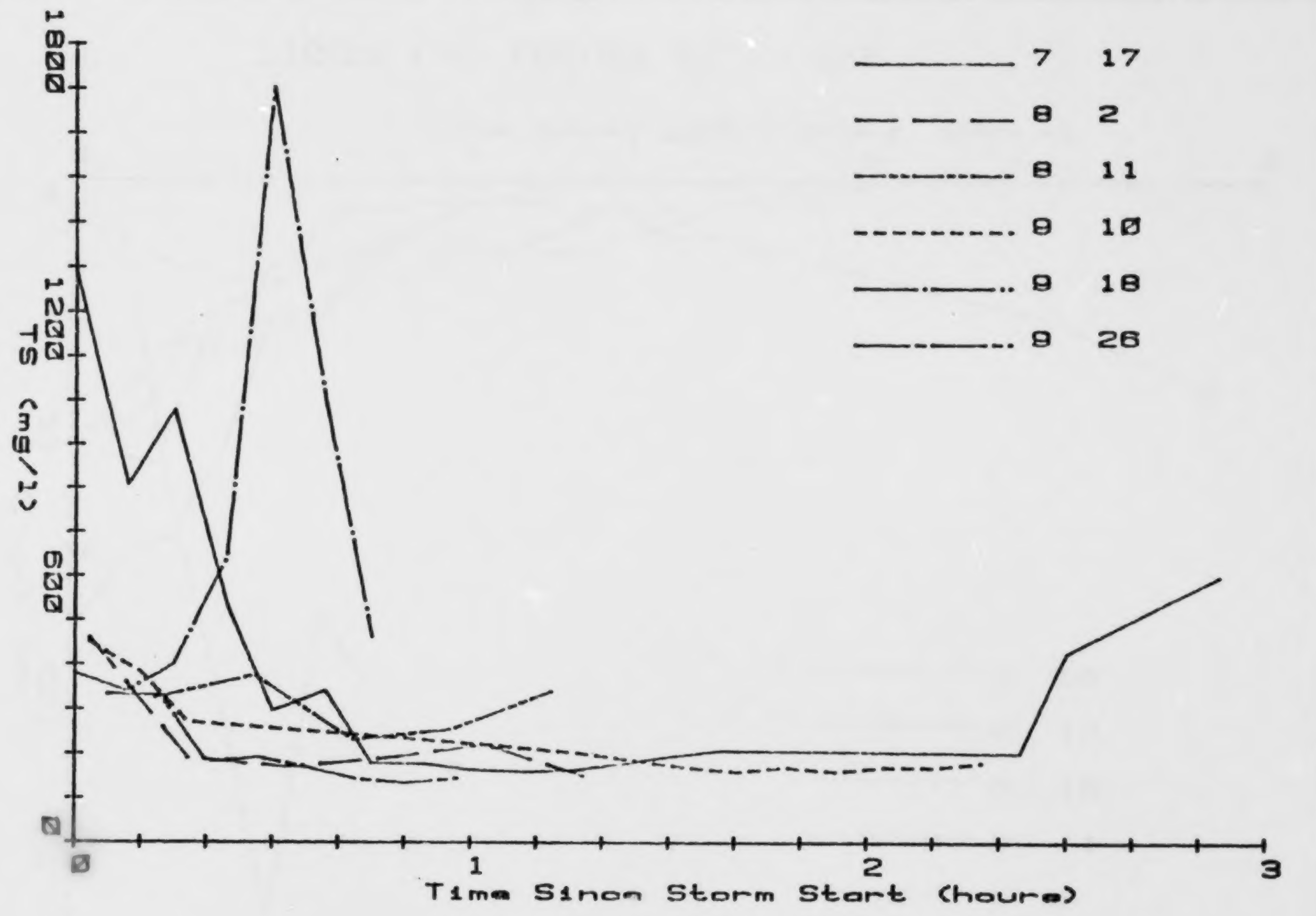

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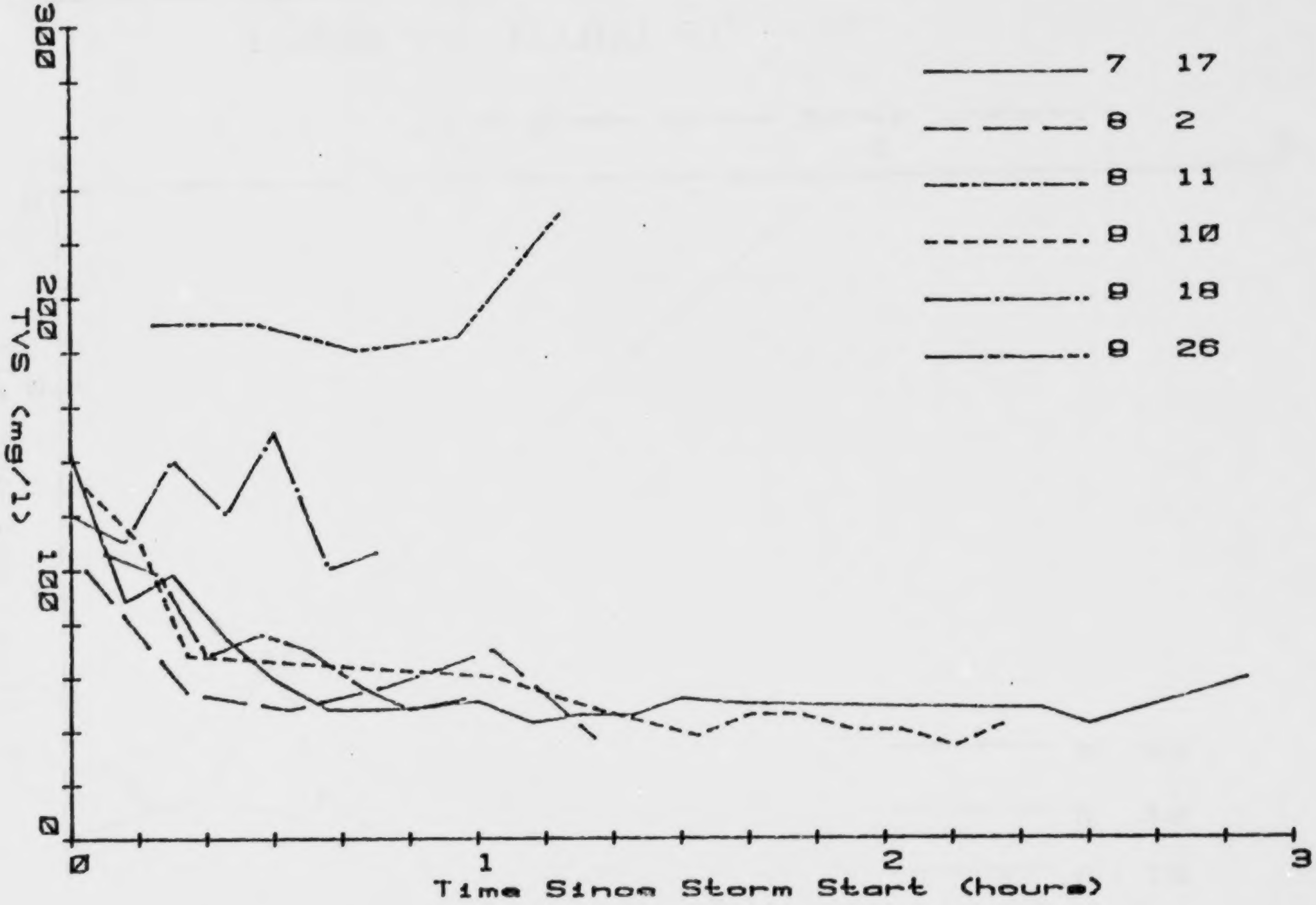

FIGURE A-56 LOCUST ST. - TVS

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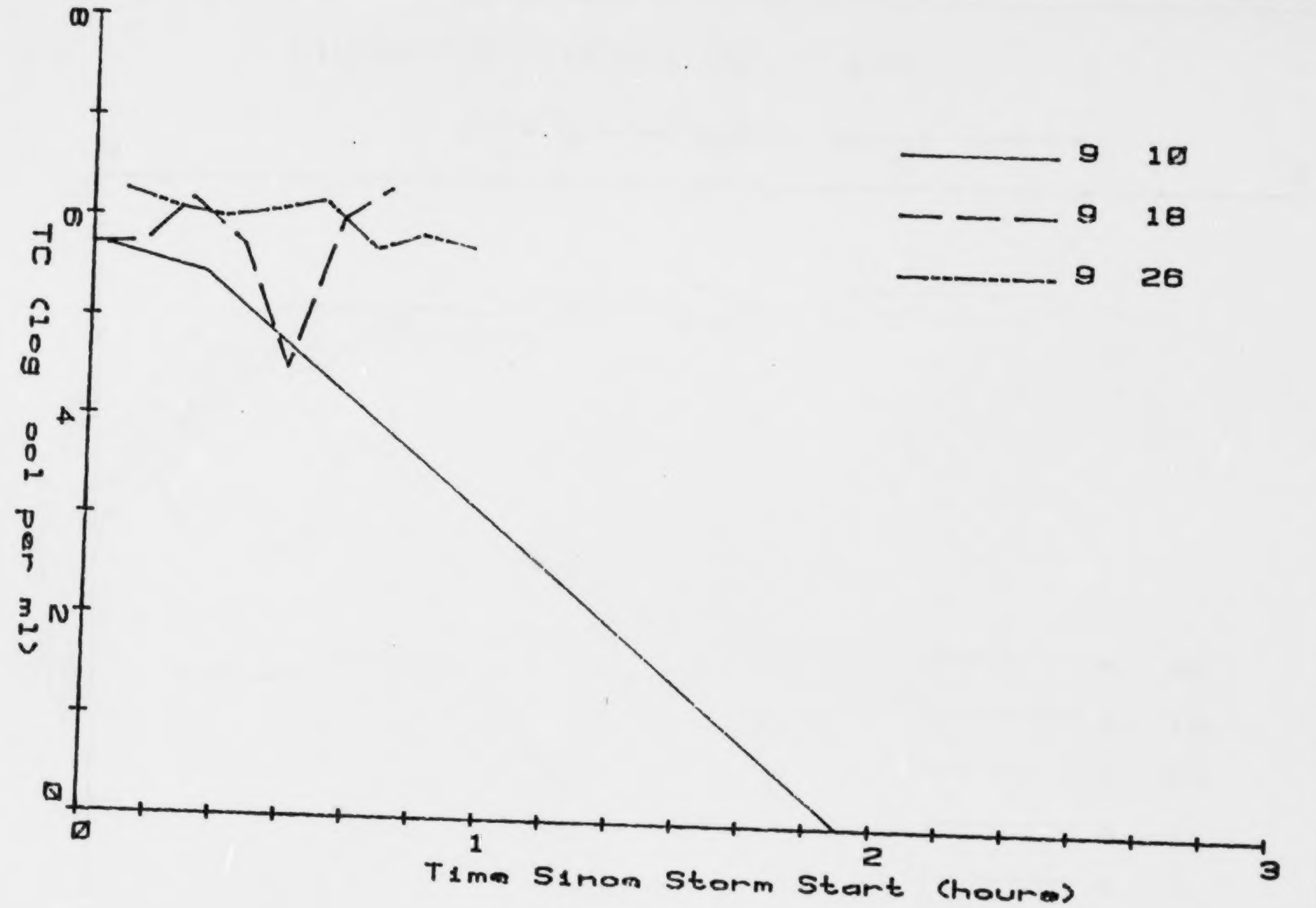


FIGURE A-57 LOCUST ST. - TC

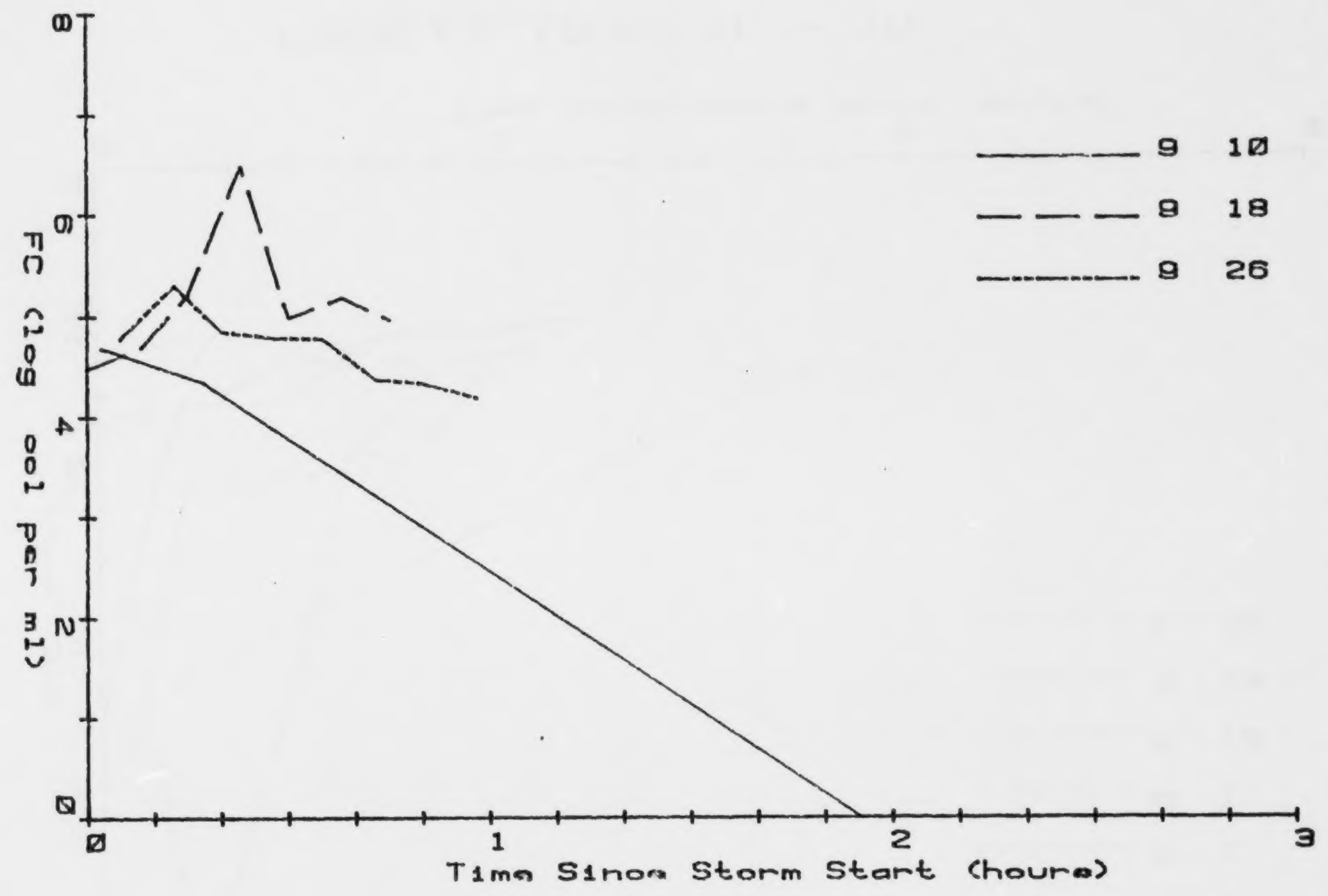


FIGURE A-58 LOCUST ST. - FC

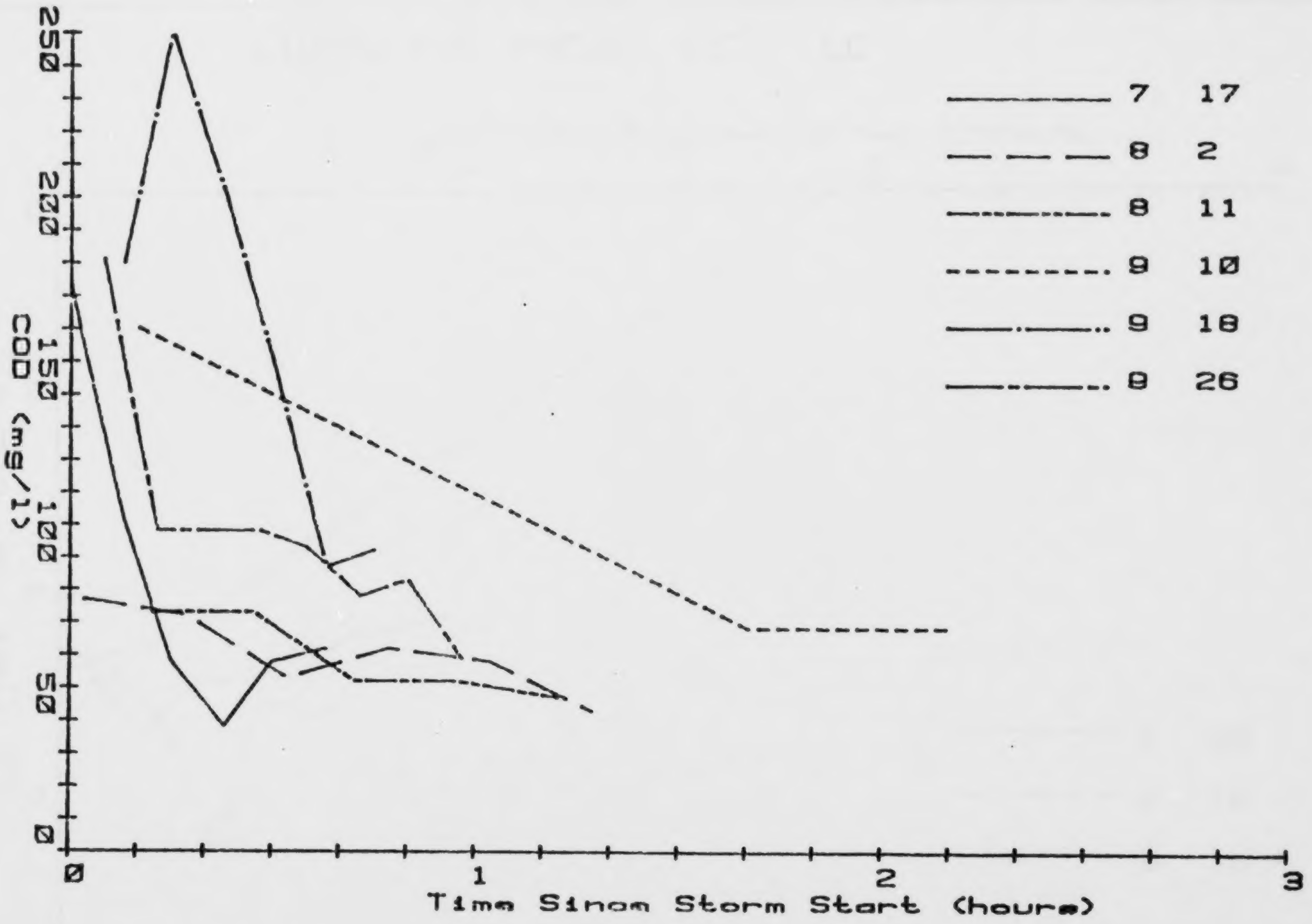


FIGURE A-59 LOCUST ST. - COD

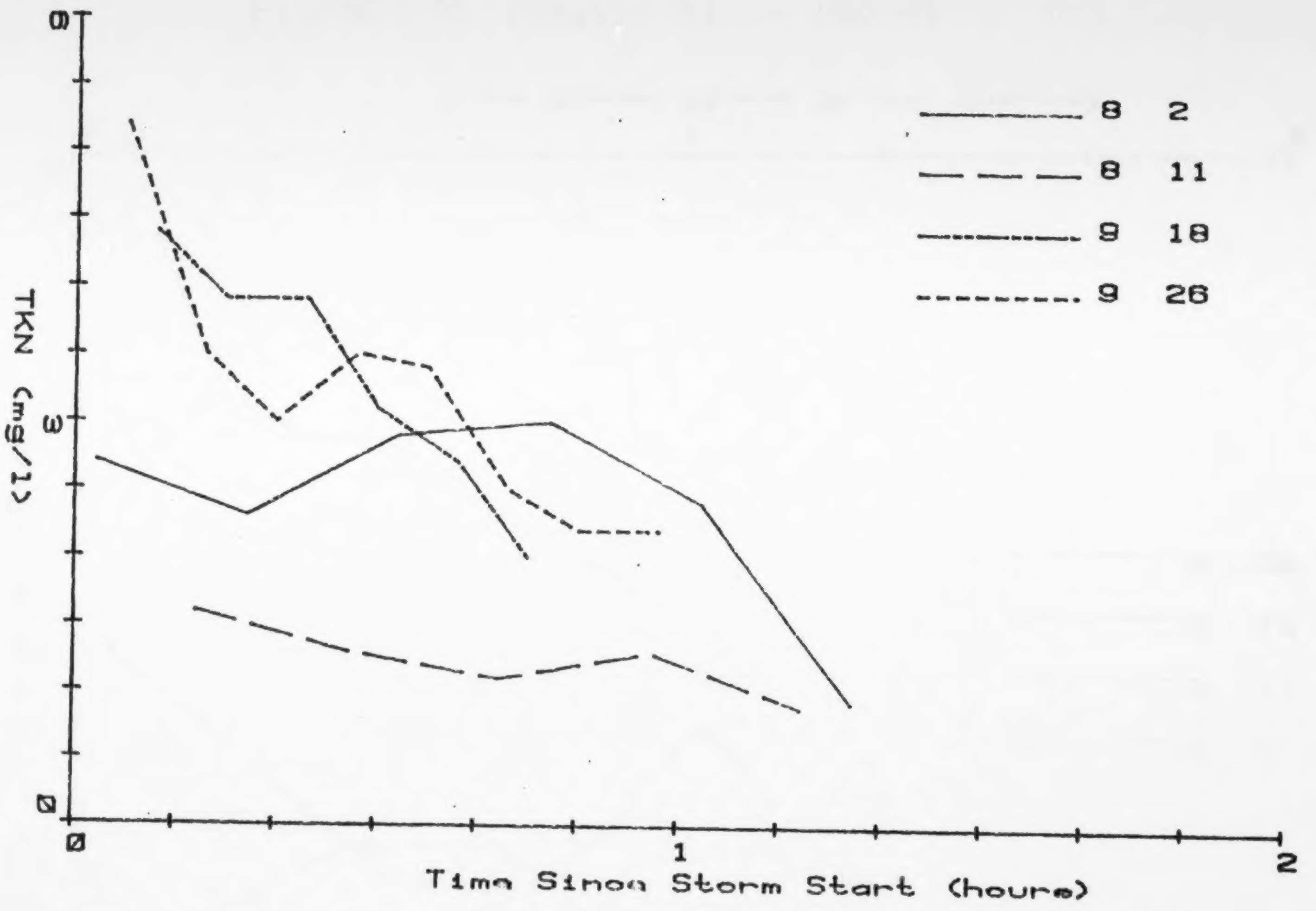


FIGURE A-60 LOCUST ST. - TKN

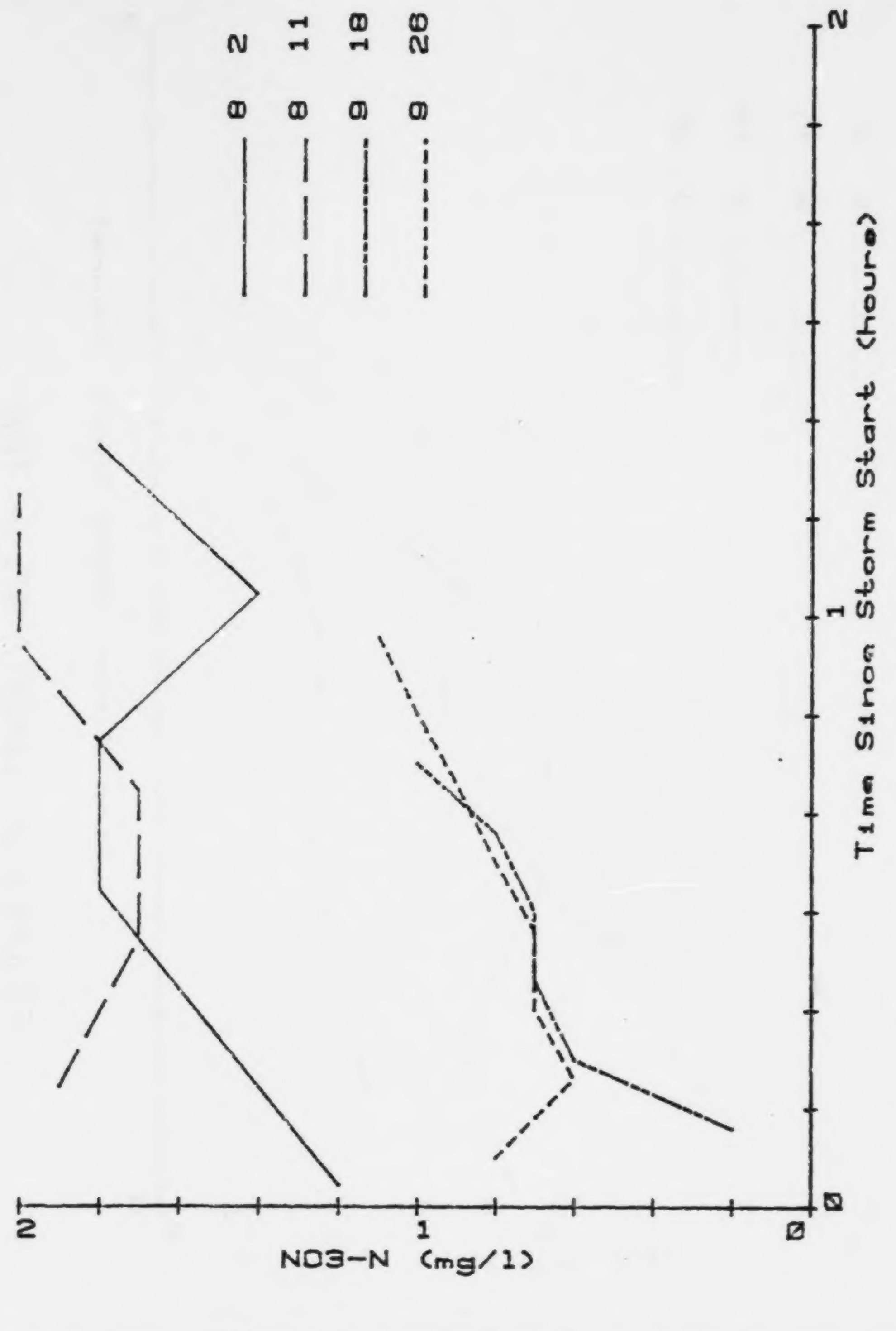


FIGURE A-61 LOCUST ST. - NO3-N

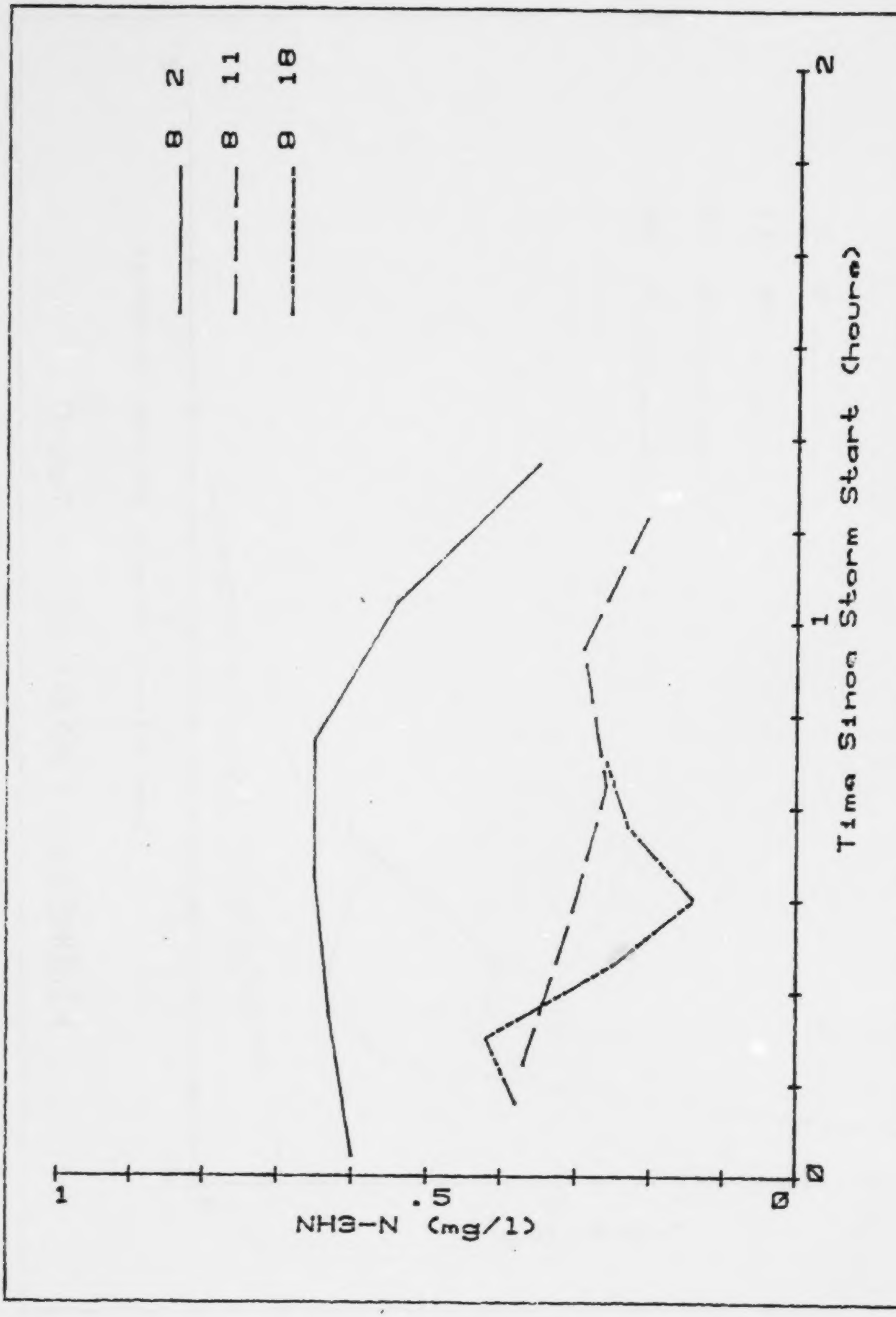


FIGURE A-62 LOCUST ST. - NH3-N

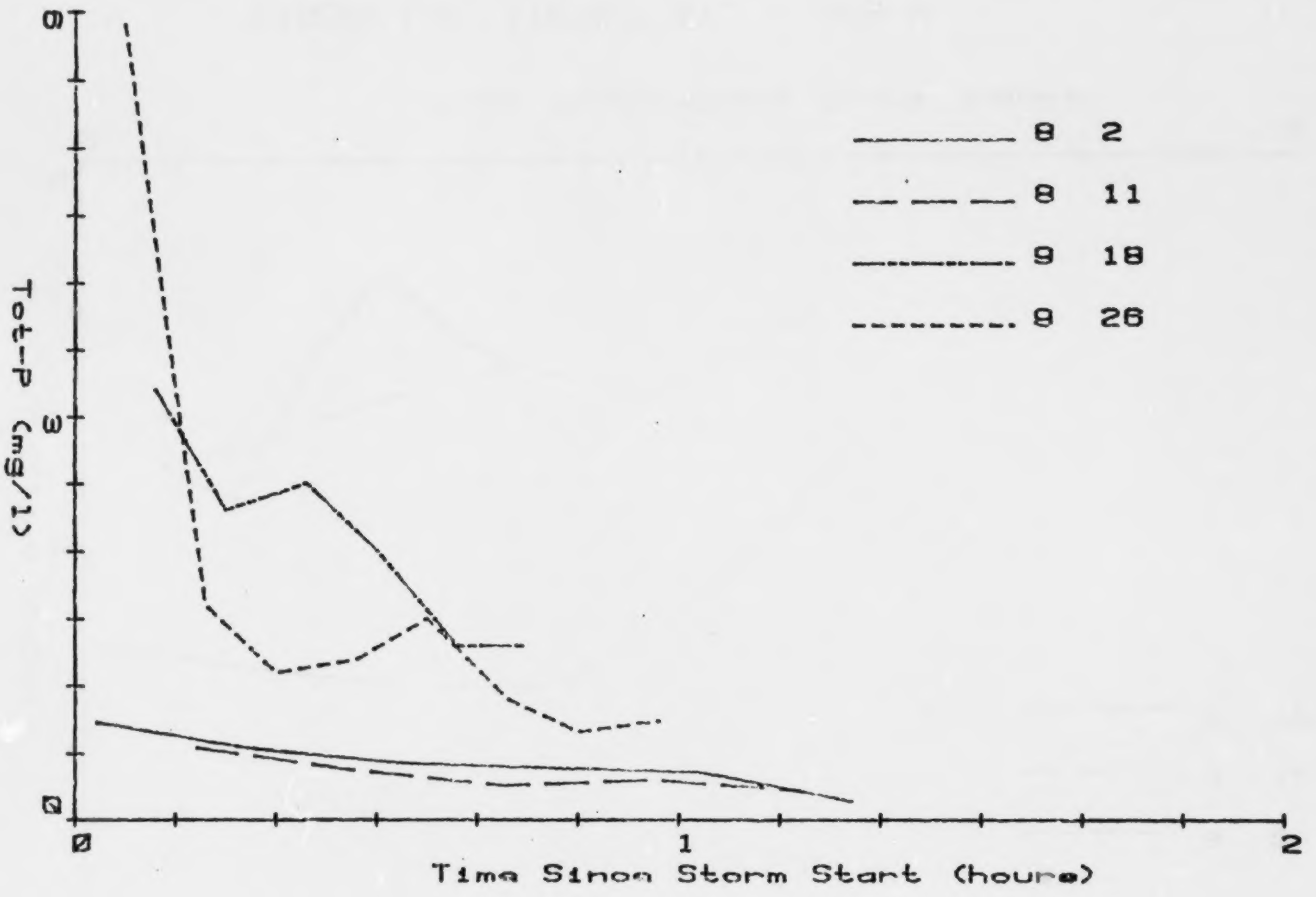


FIGURE A-63 LOCUST ST. - Tot-P

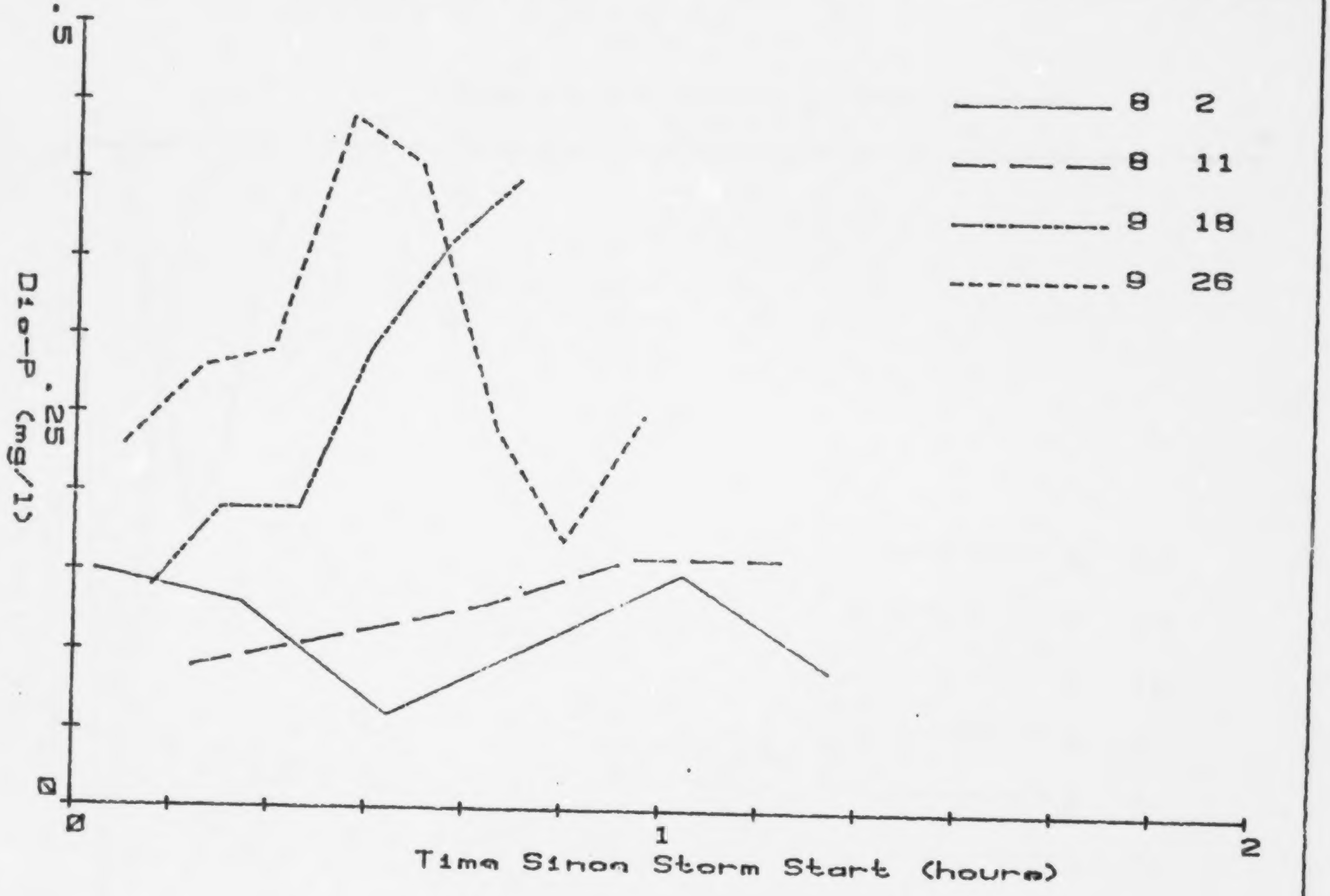


FIGURE A-64 LOCUST ST. - Dis-P

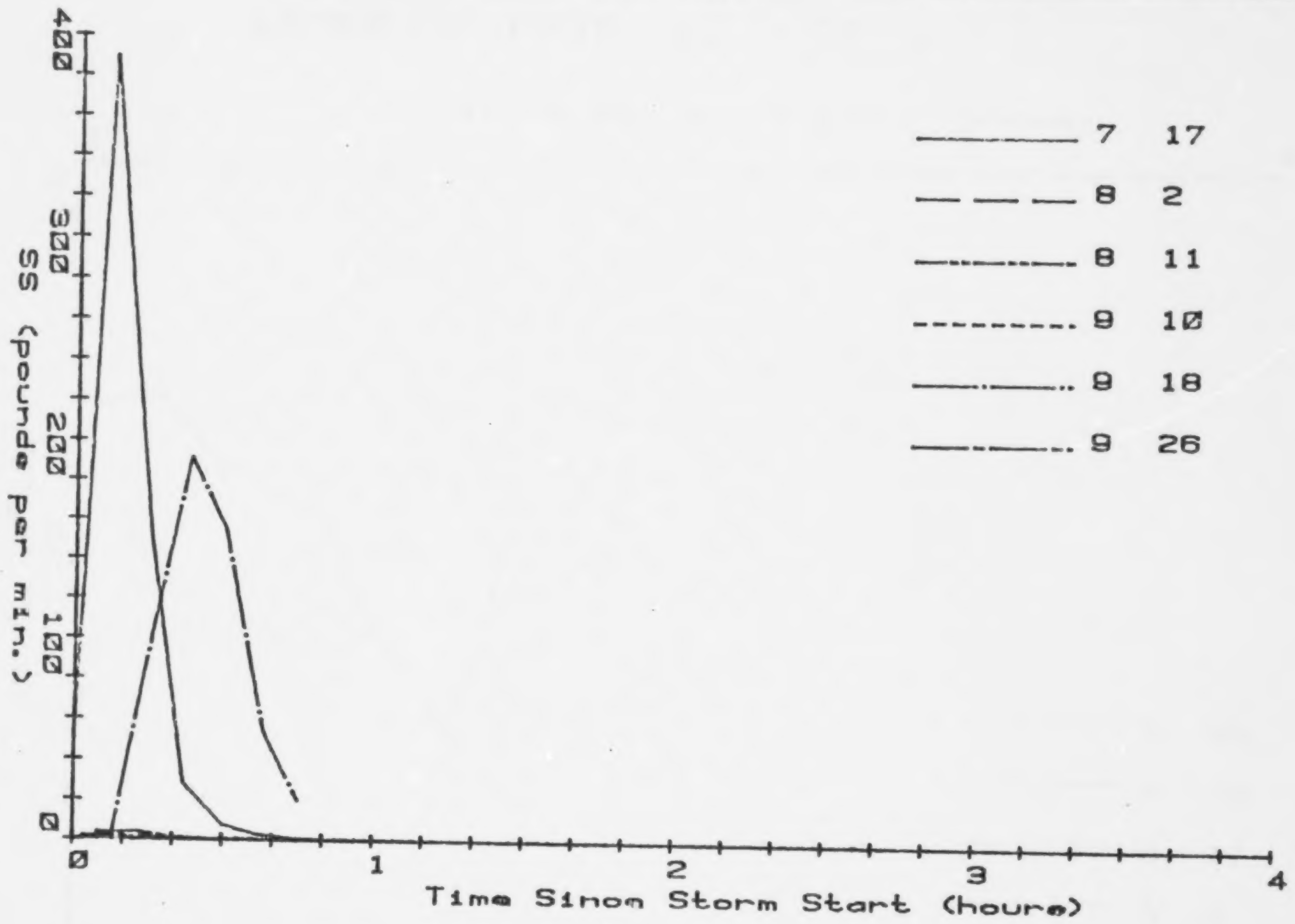
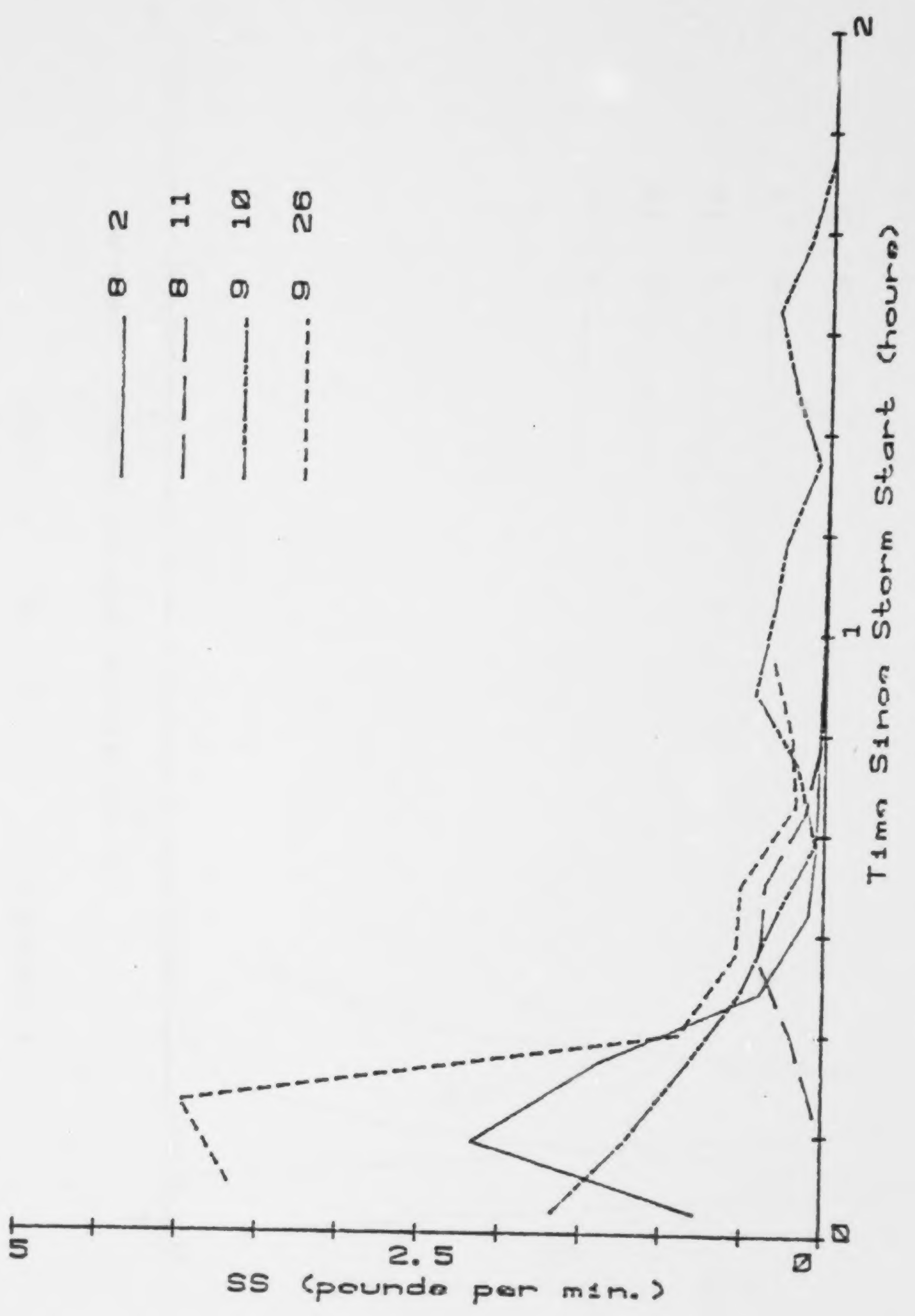


FIGURE A-65 LOCUST ST. - SS



FIGUREA-66 LOCUST ST. - SS

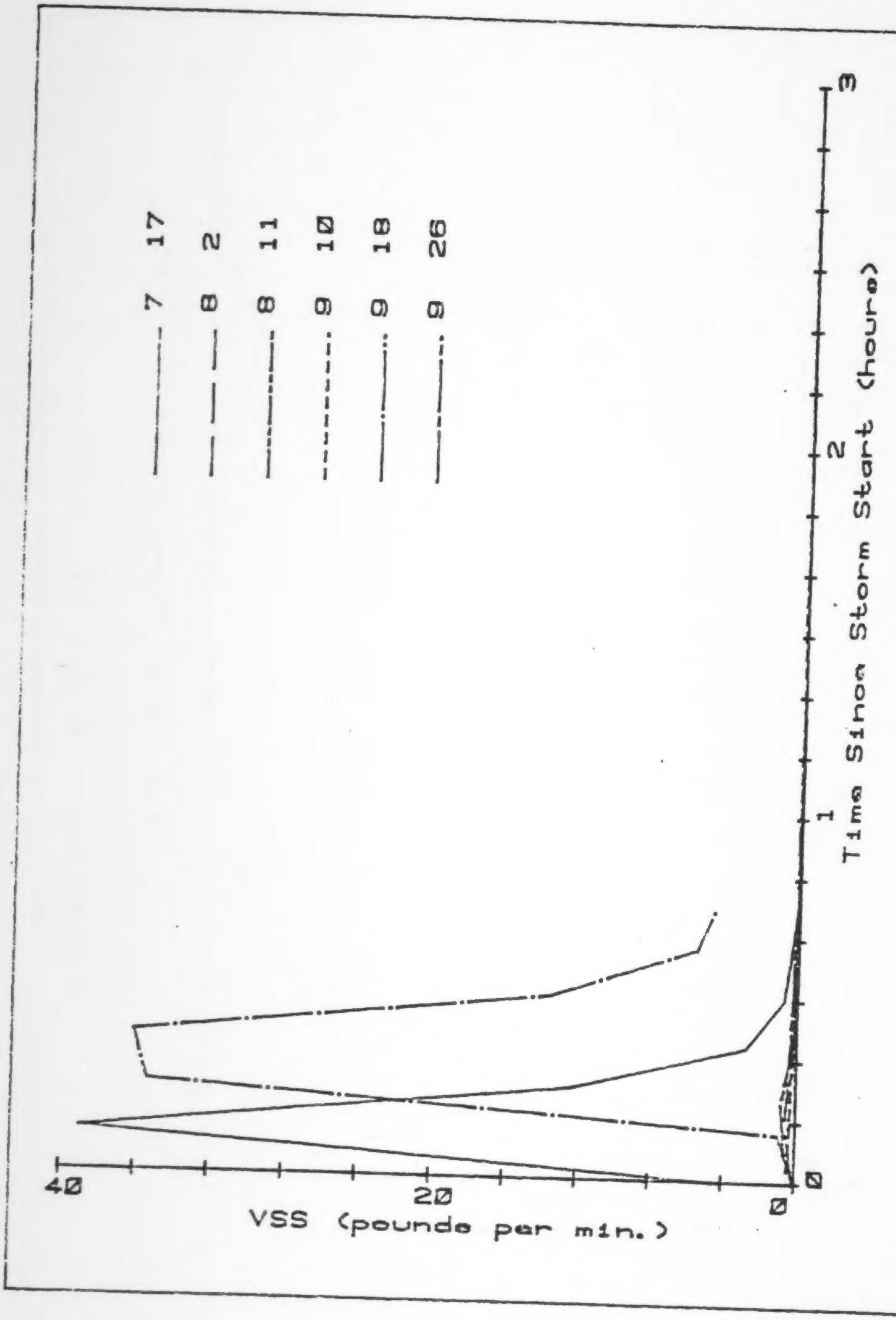


FIGURE A-67 LOCUST ST. - VSS

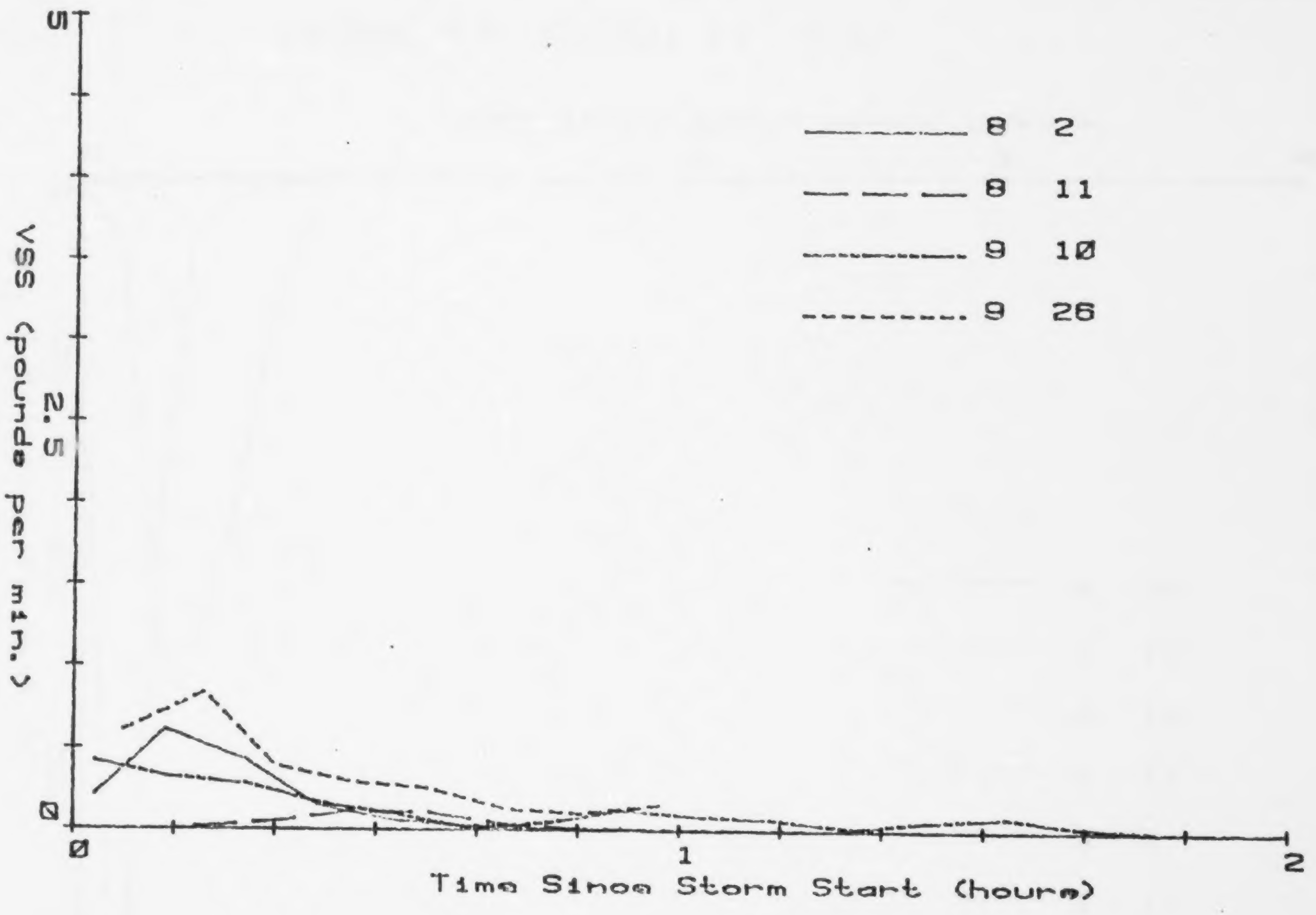


FIGURE A-68 LOCUST ST. - VSS

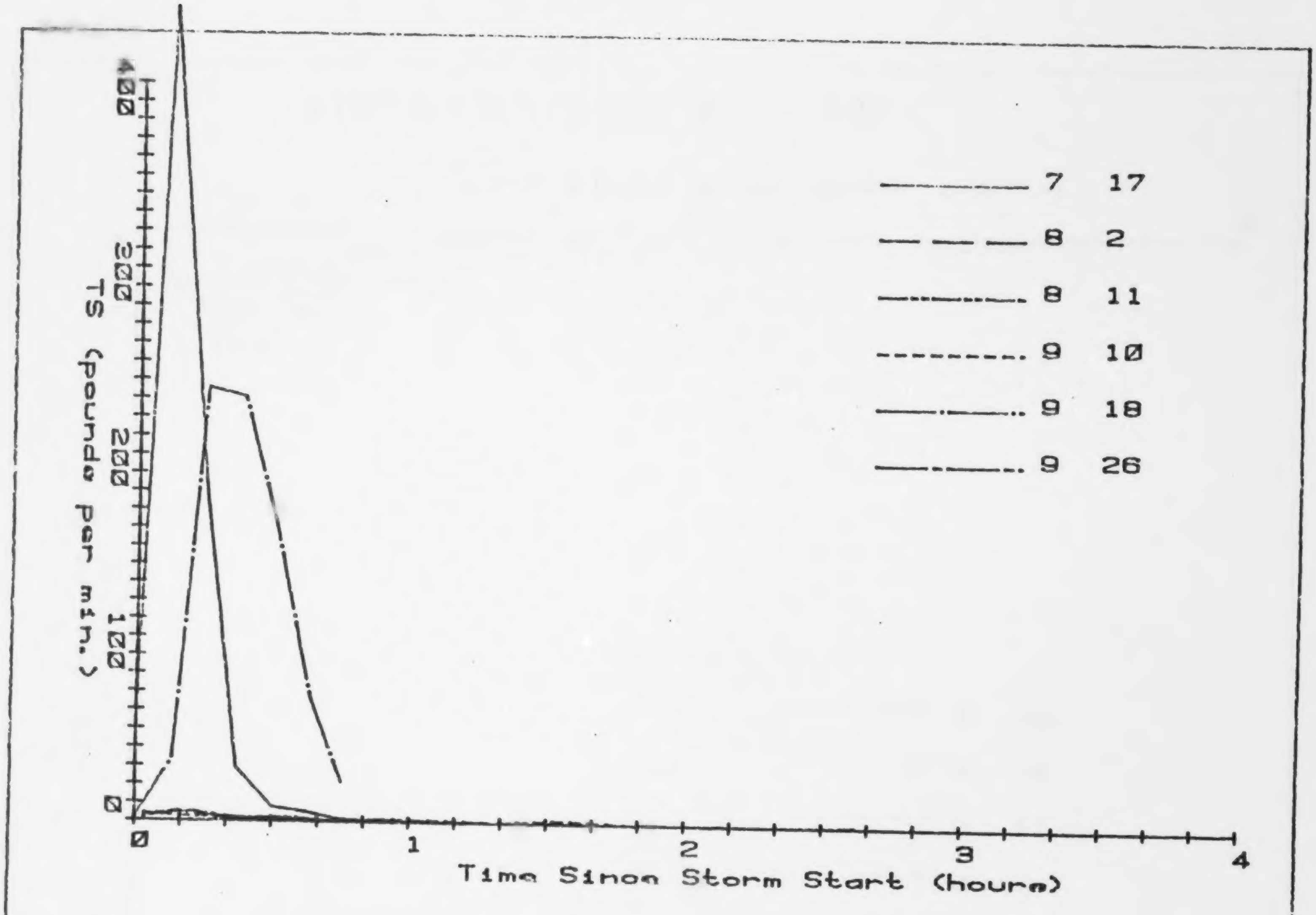


FIGURE A-69 LOCUST ST. - TS

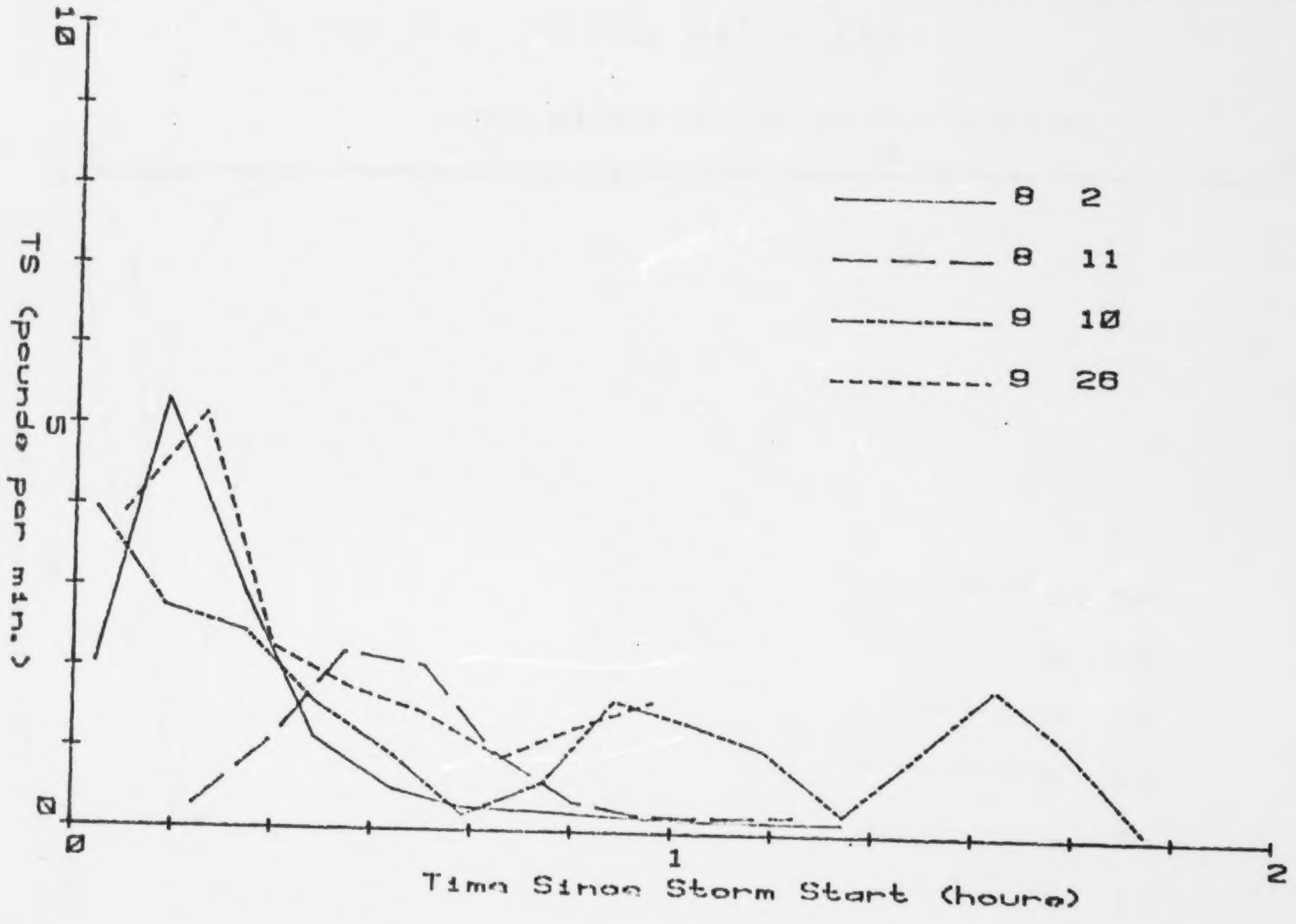


FIGURE A-70 LOCUST ST. - TS

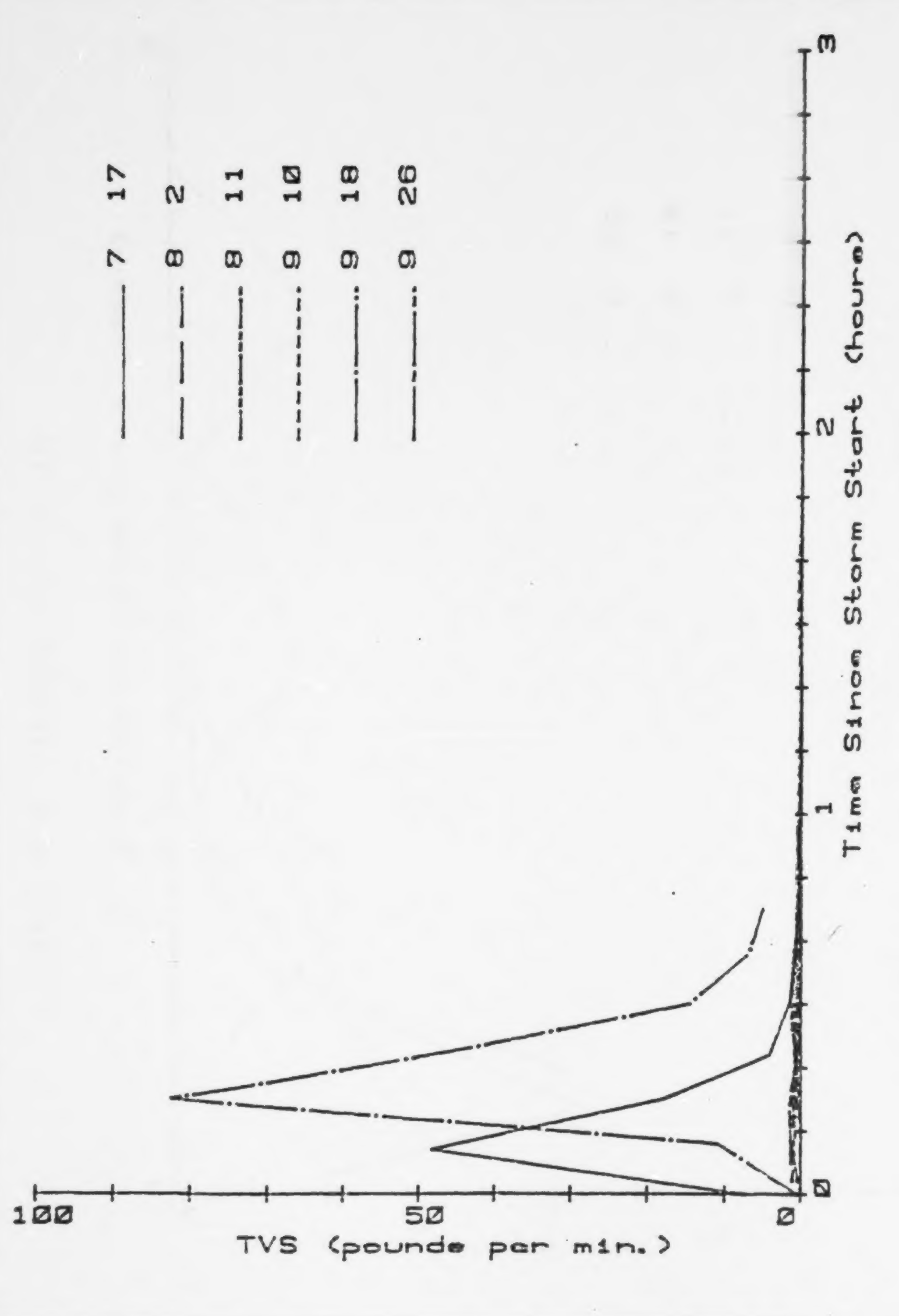


FIGURE A-71 LOCUST ST. - TVS

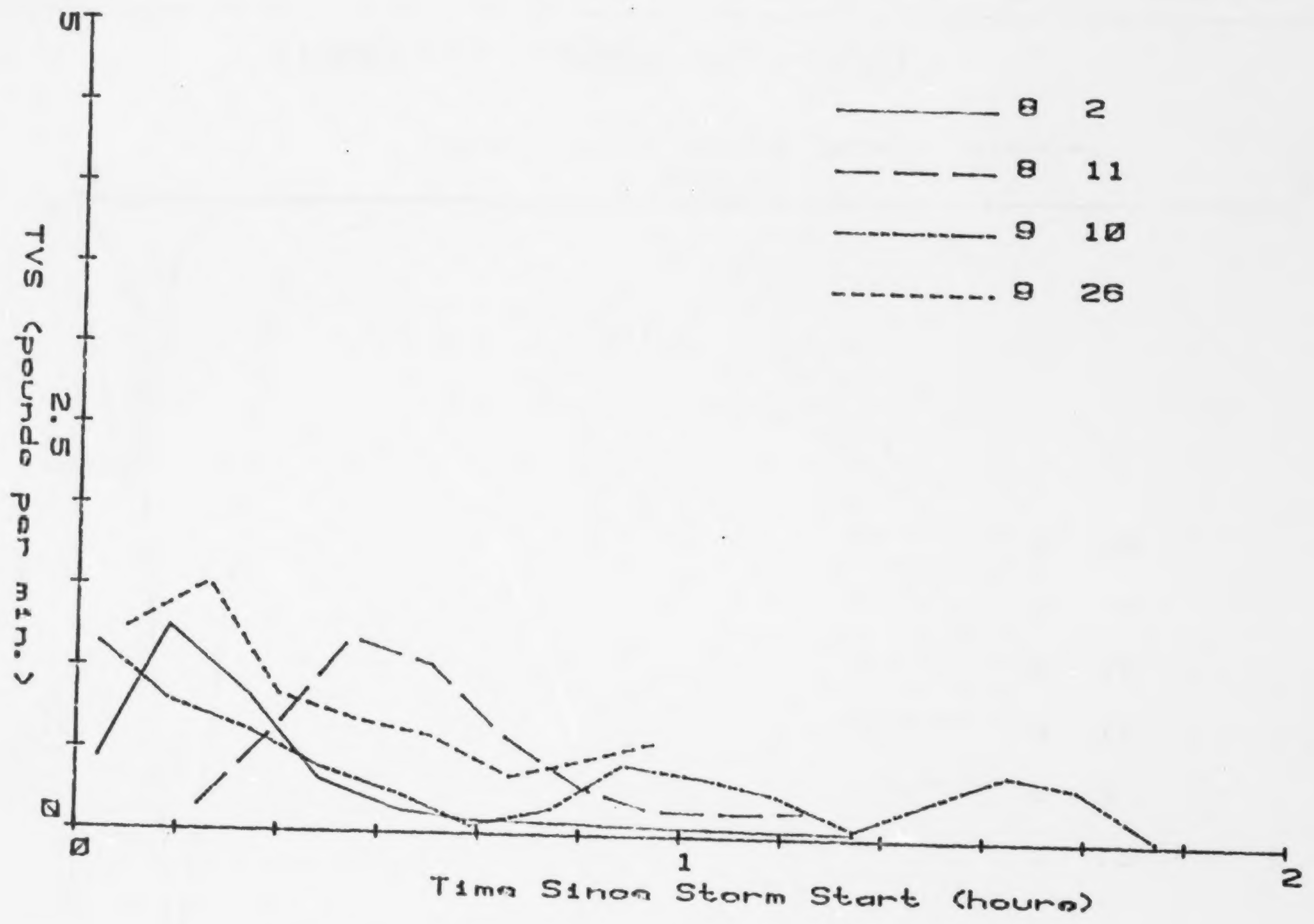


FIGURE A-72 LOCUST ST. - TVS

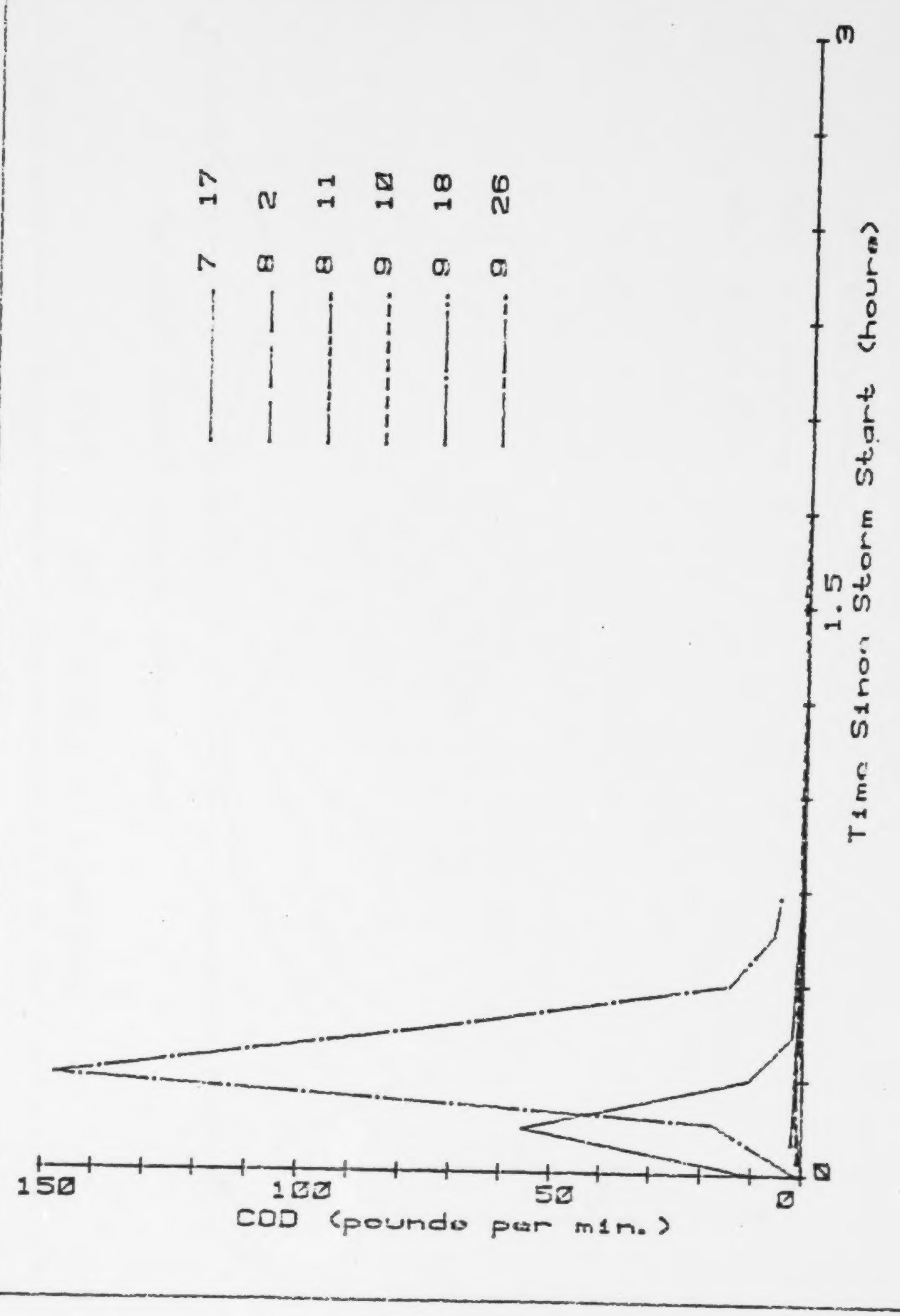


FIGURE A-73 LOCUST ST. - COD

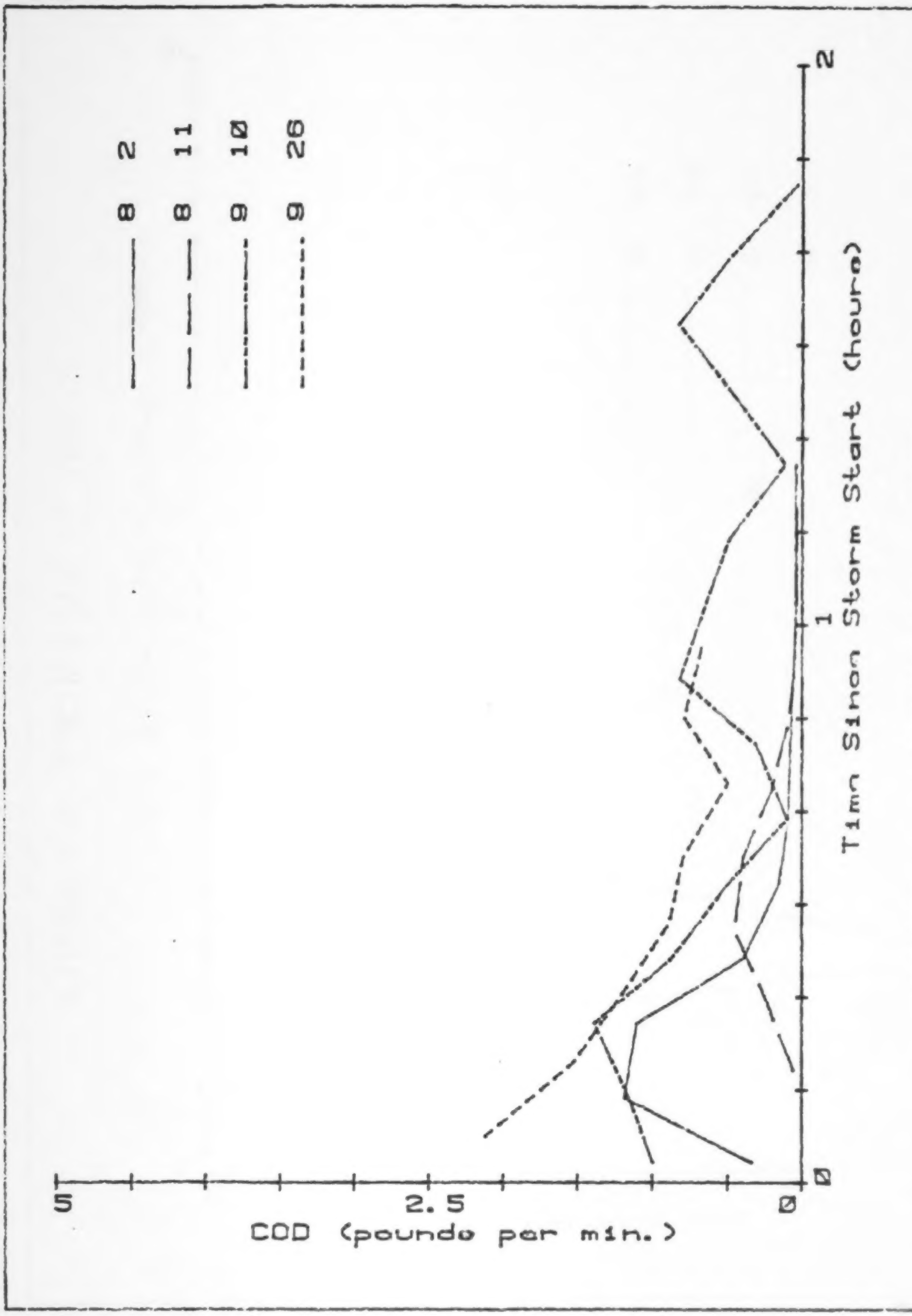


FIGURE A-74 LOCUST ST. - COD

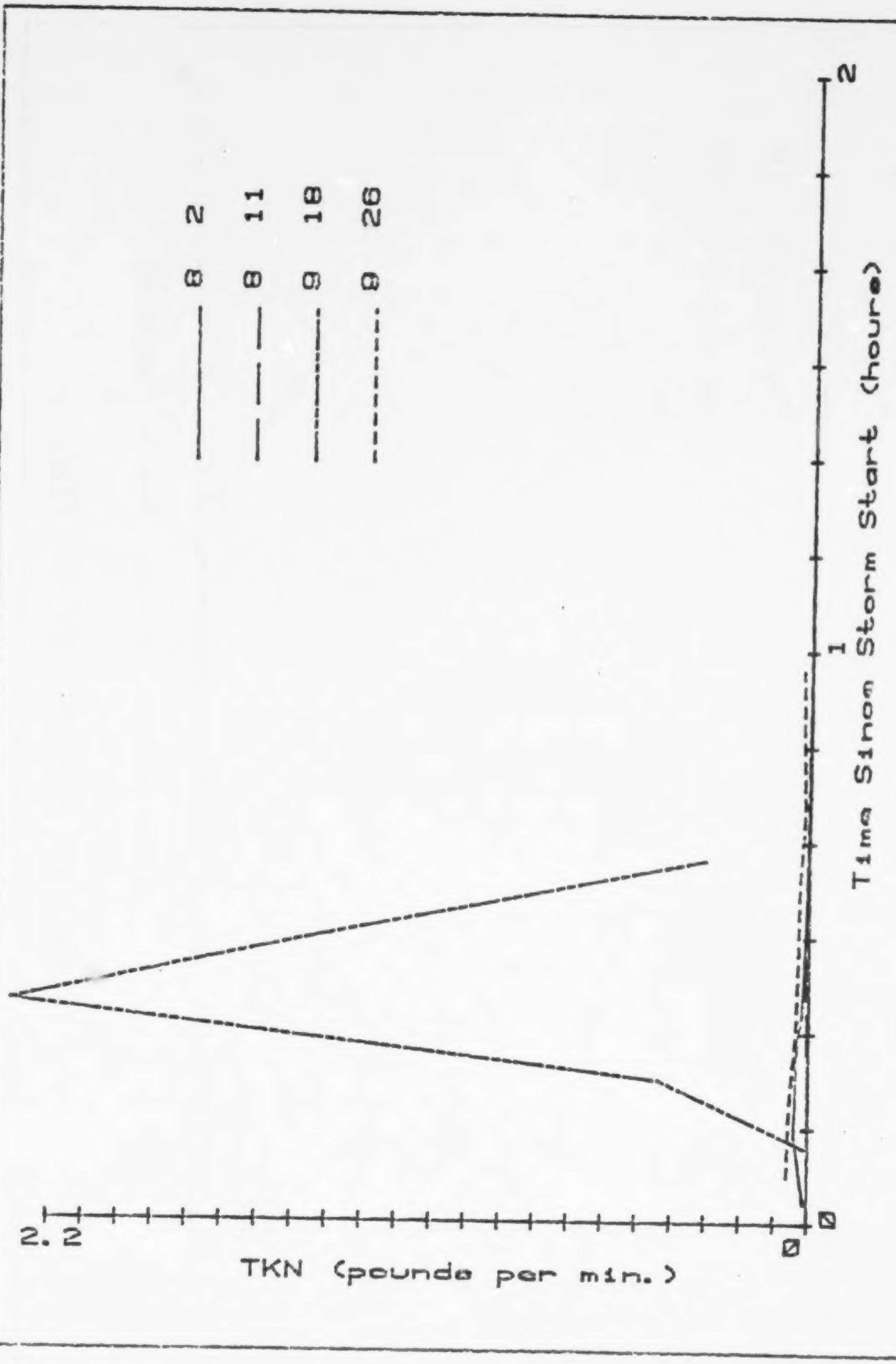


FIGURE A-75 LOCUST ST. - TKN

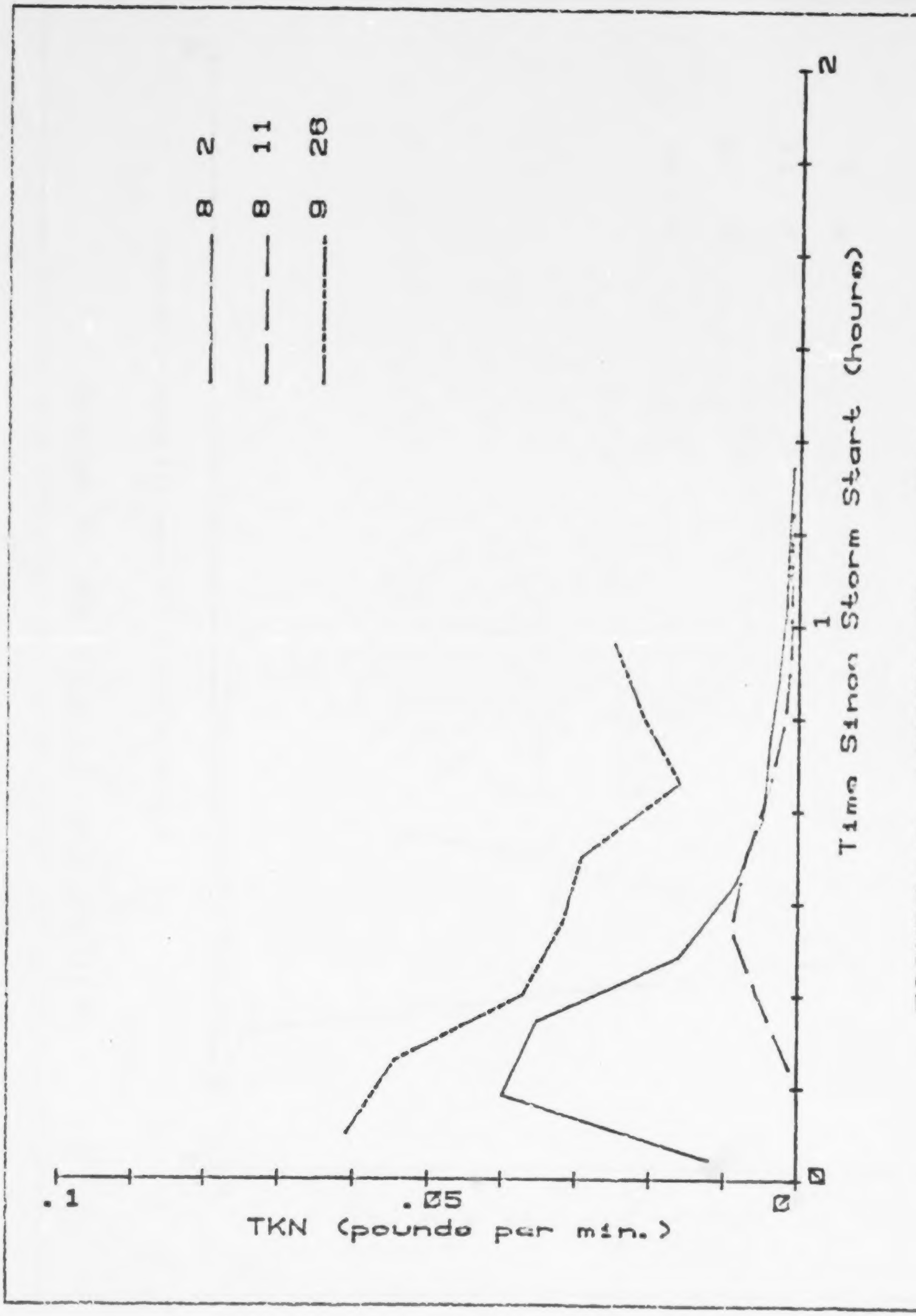


FIGURE A-76 LOCUST ST. - TKN

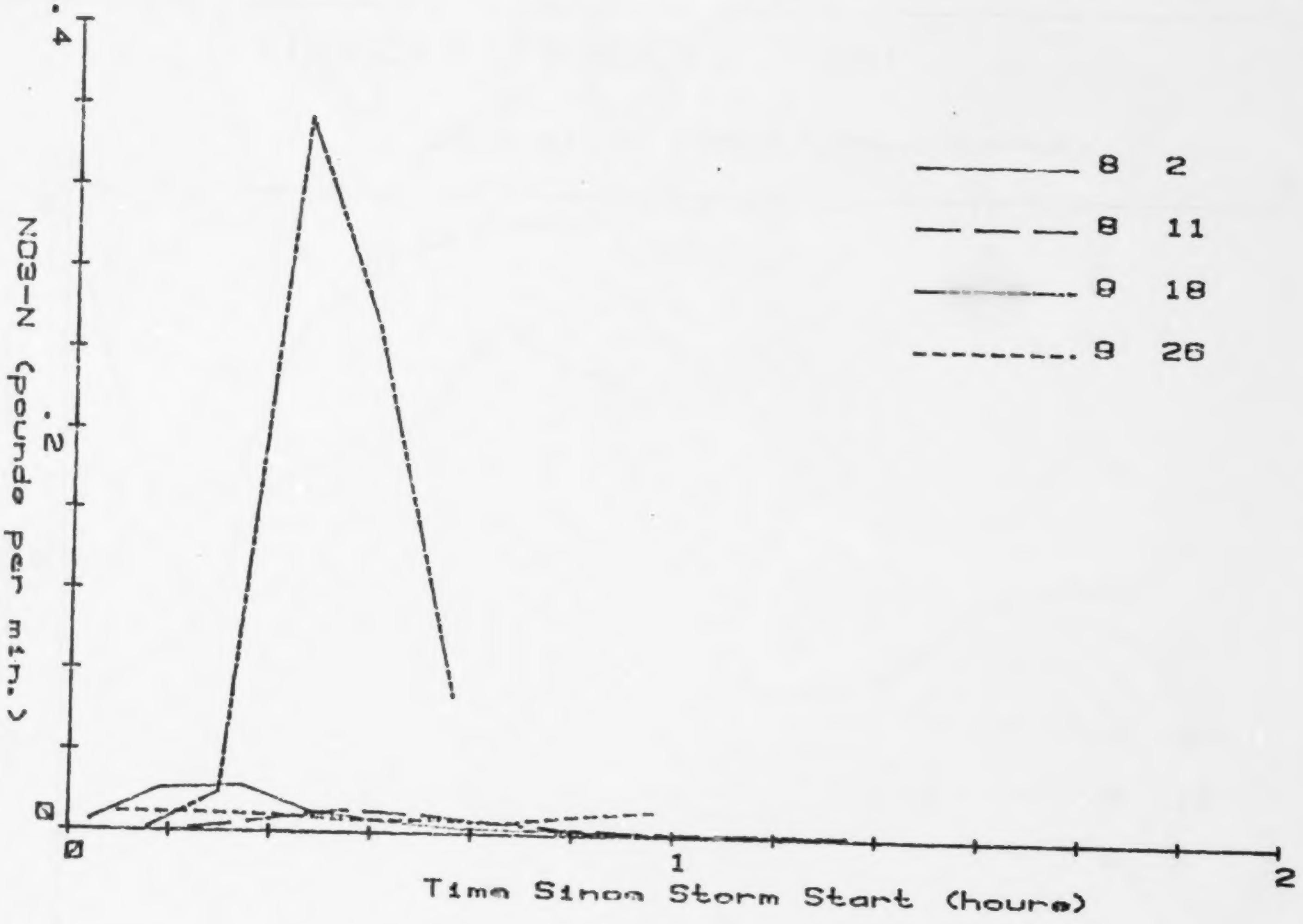


FIGURE A-77 LOCUST ST. - NO3-N

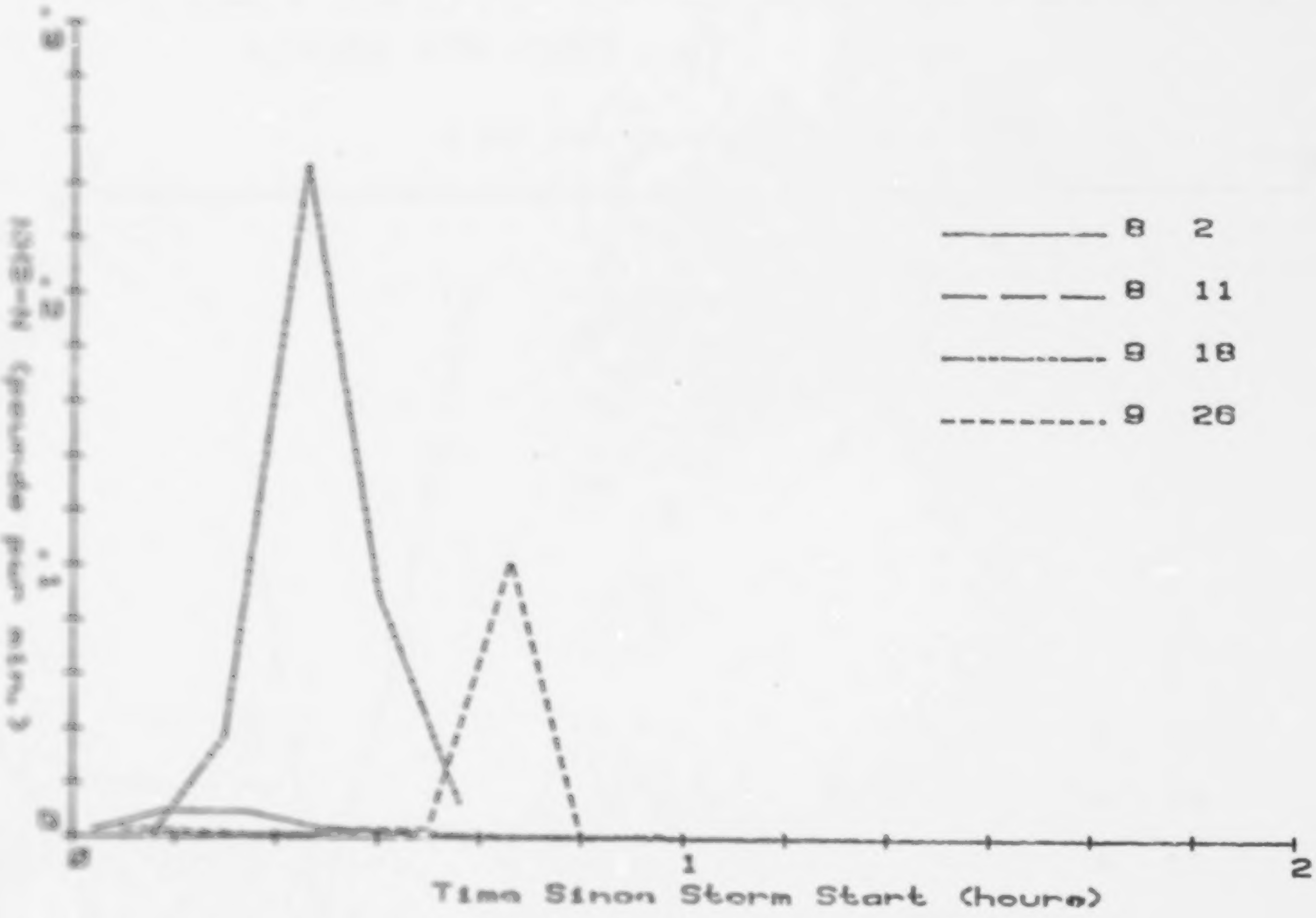


FIGURE A-78 LOCUST ST. - NH3-N

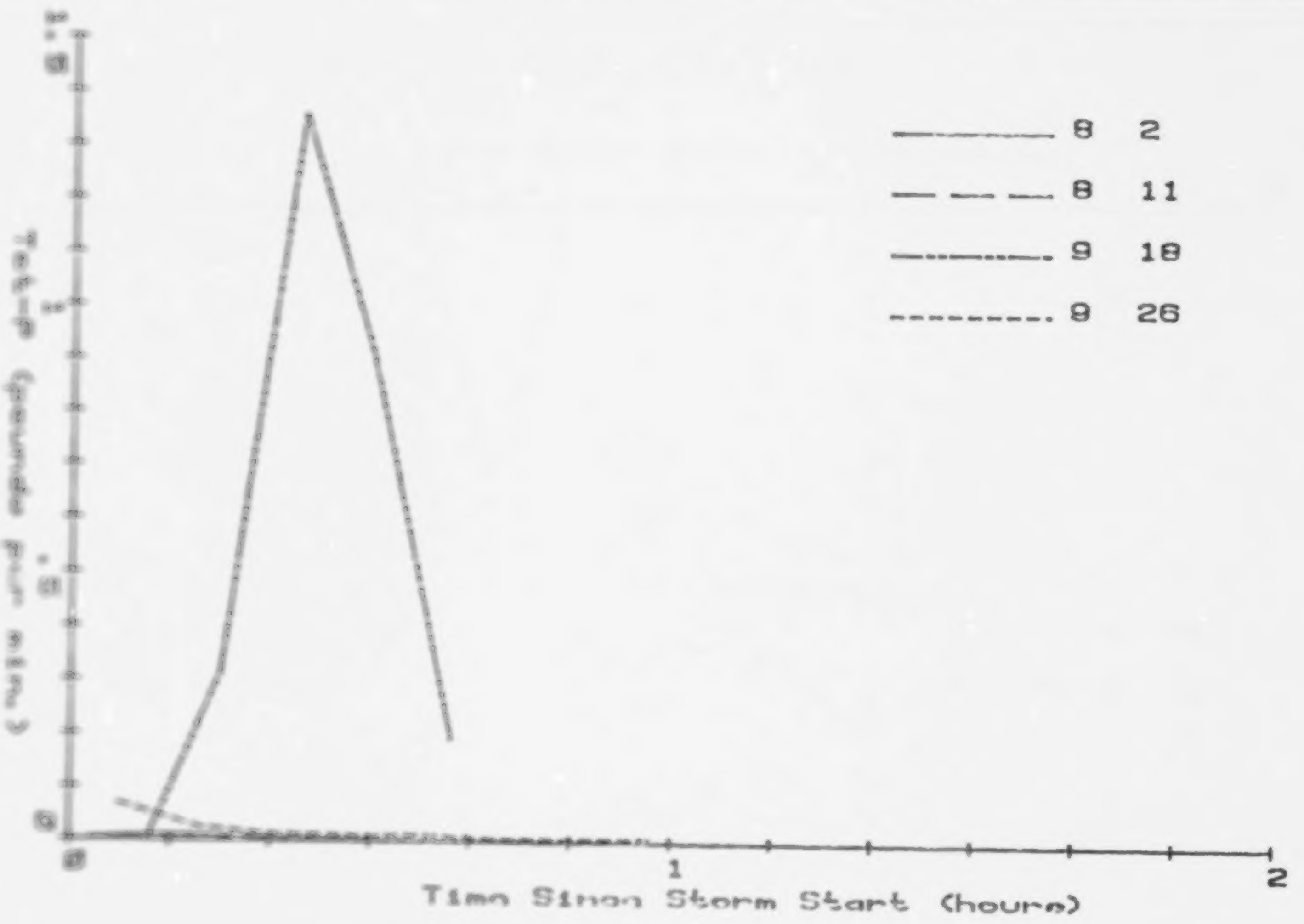


FIGURE A-80 LOCUST ST. - Tot-P

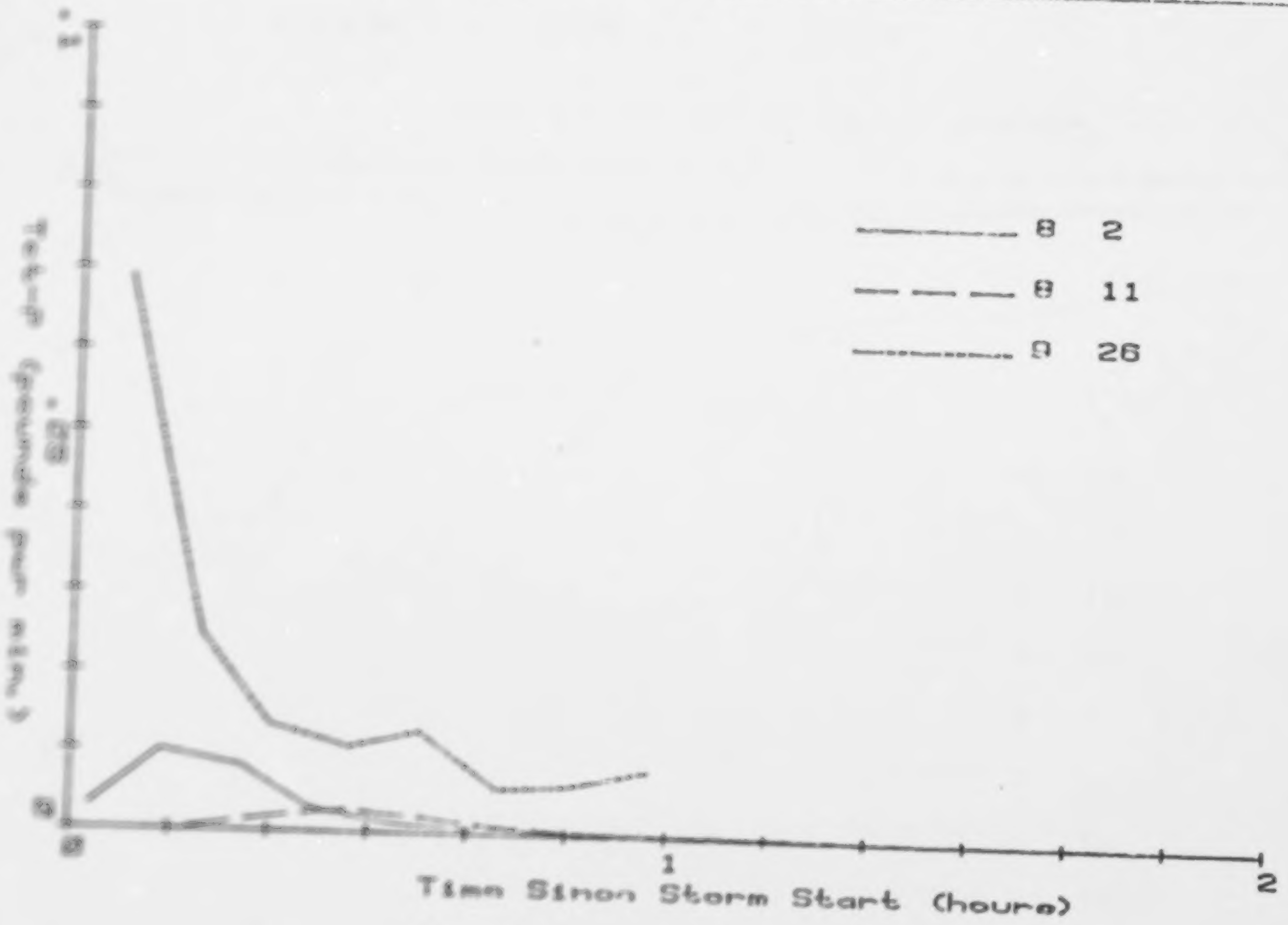


FIGURE A-81 LOCUST ST. - Tot-P

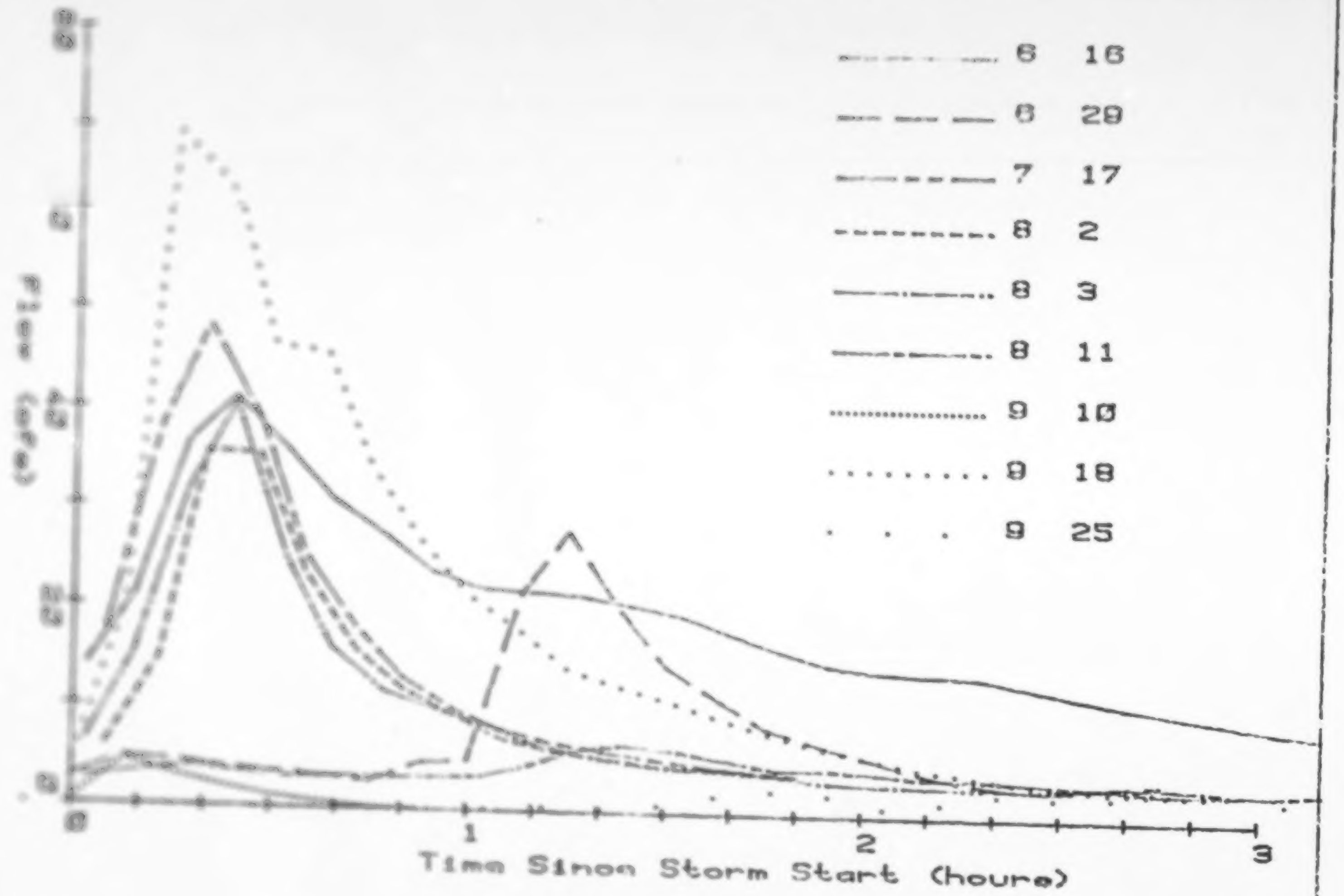


FIGURE A-82 ANNA ST. - FLOW

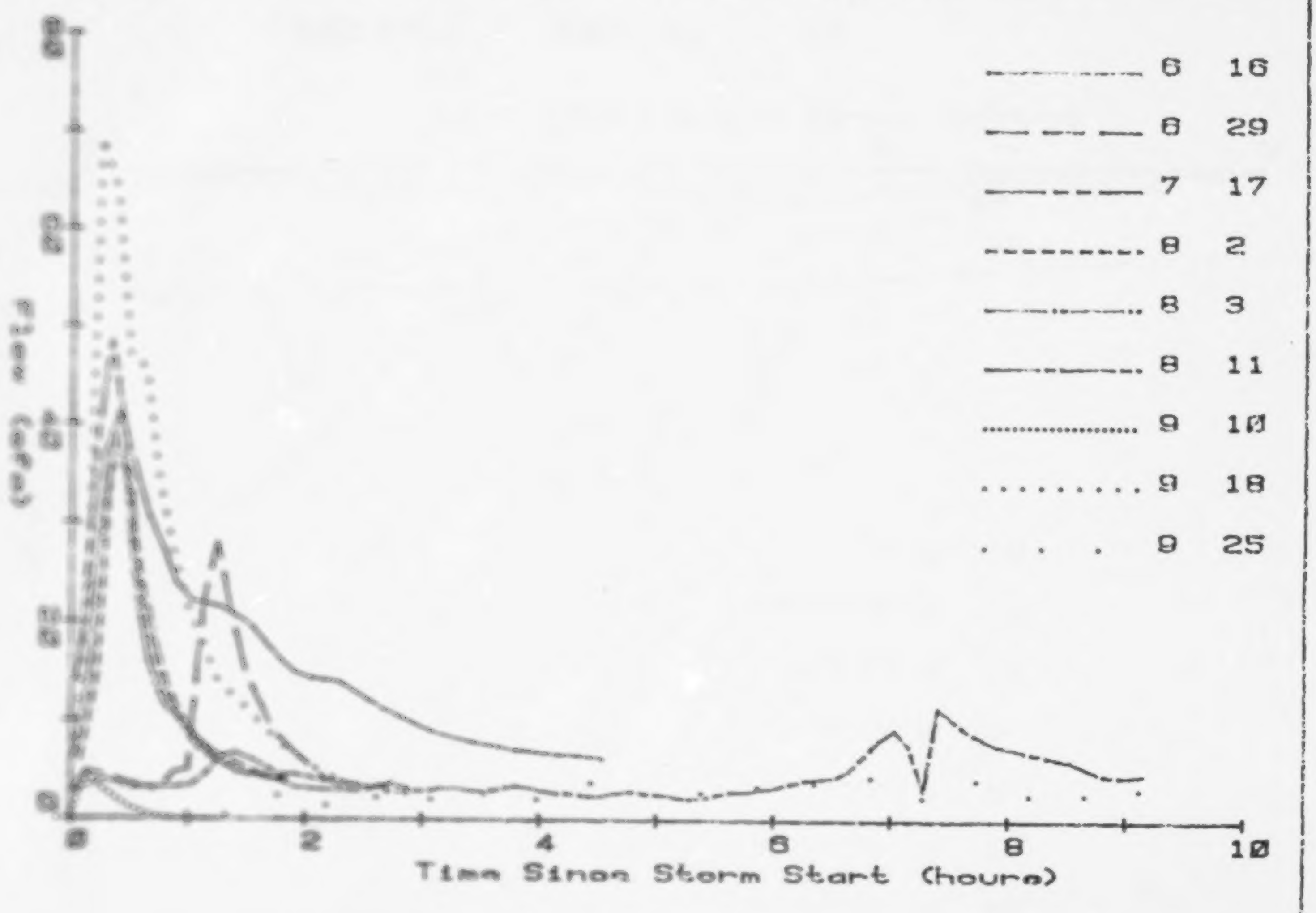


FIGURE A-83 ANNA ST. - FLOW

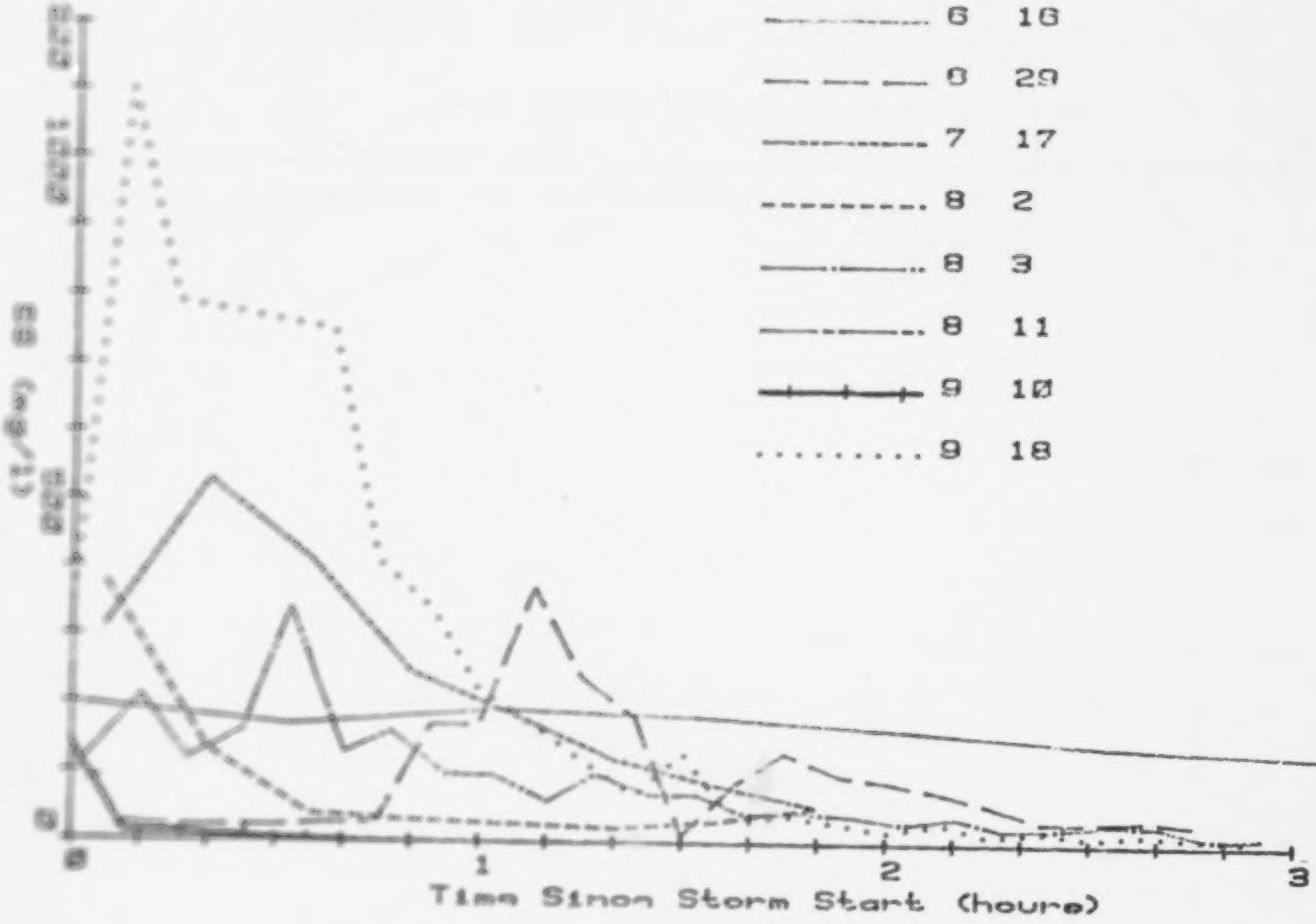


FIGURE A-84 ANNA ST. - SS

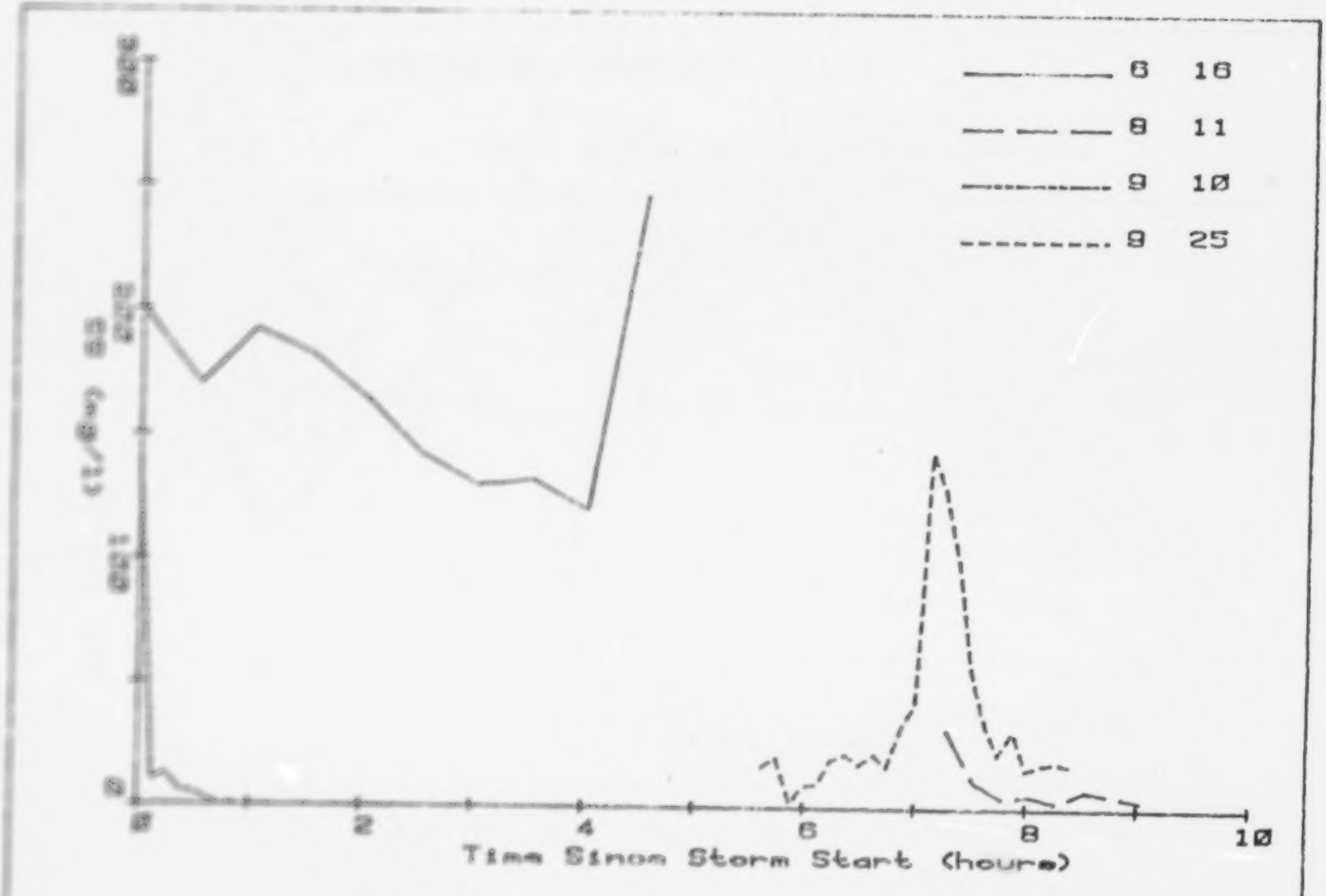


FIGURE A.07 ANNA ST. — SS

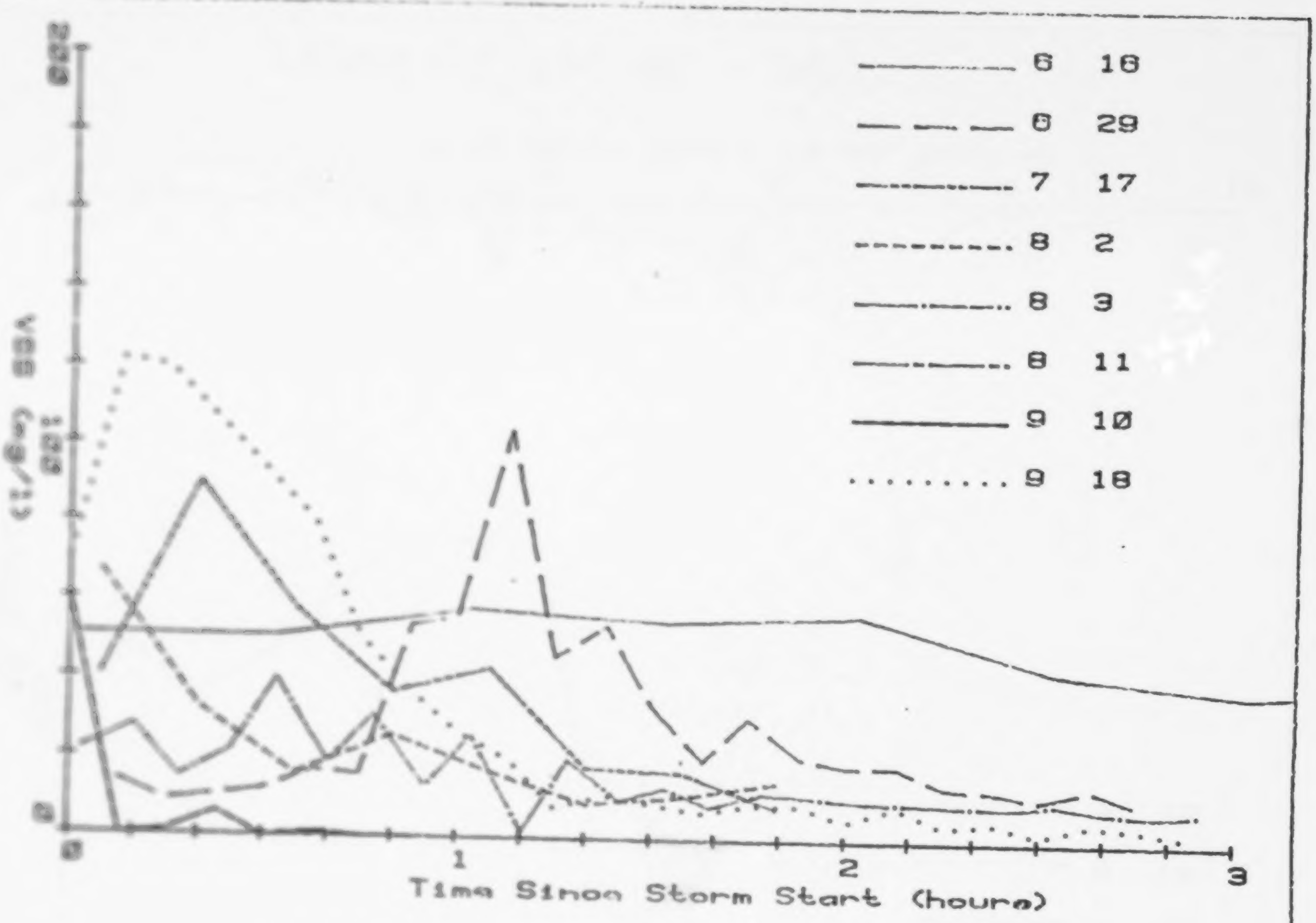


FIGURE A-86 ANNA ST. - VSS

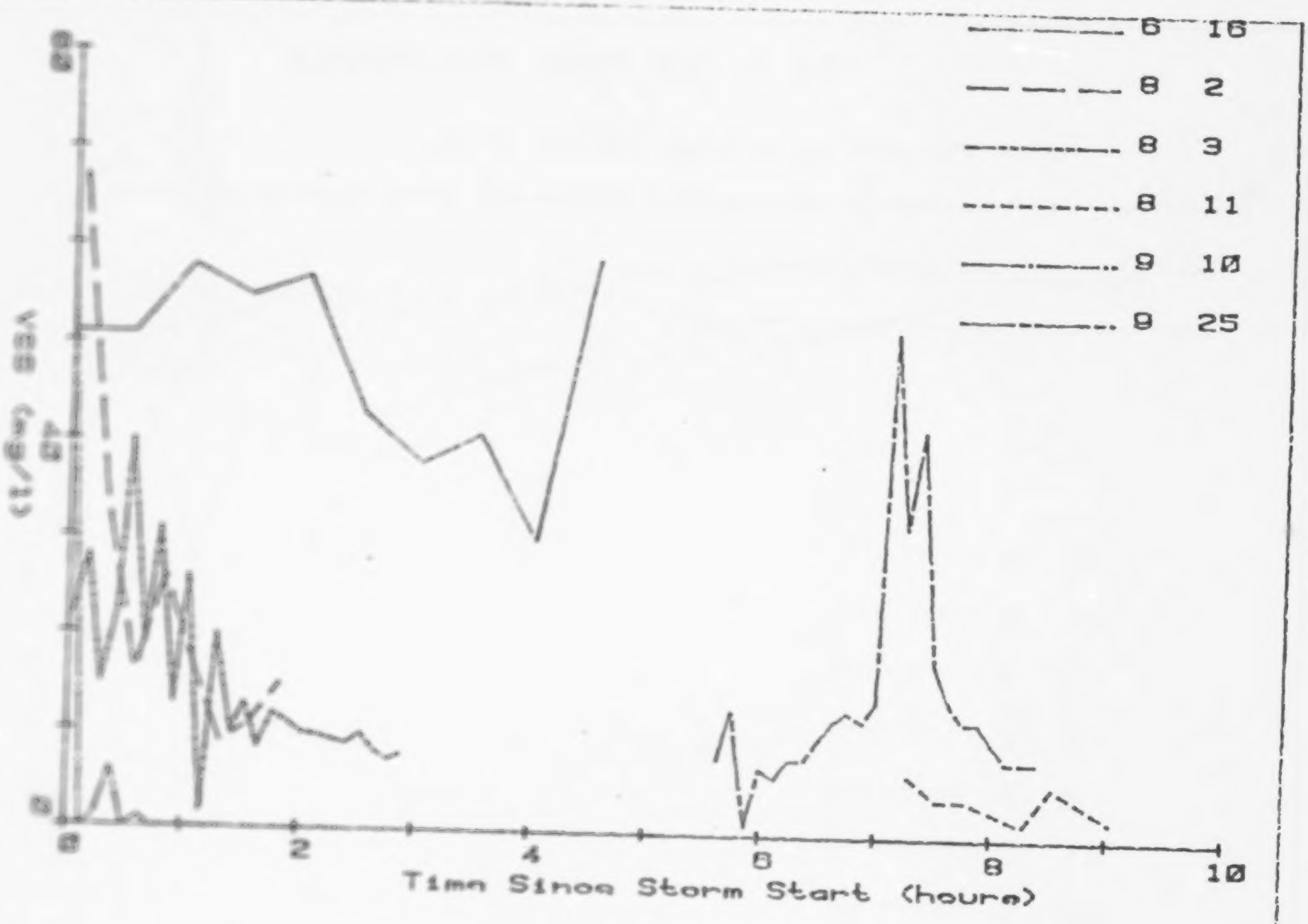


FIGURE A-87 ANNA ST. - VSS

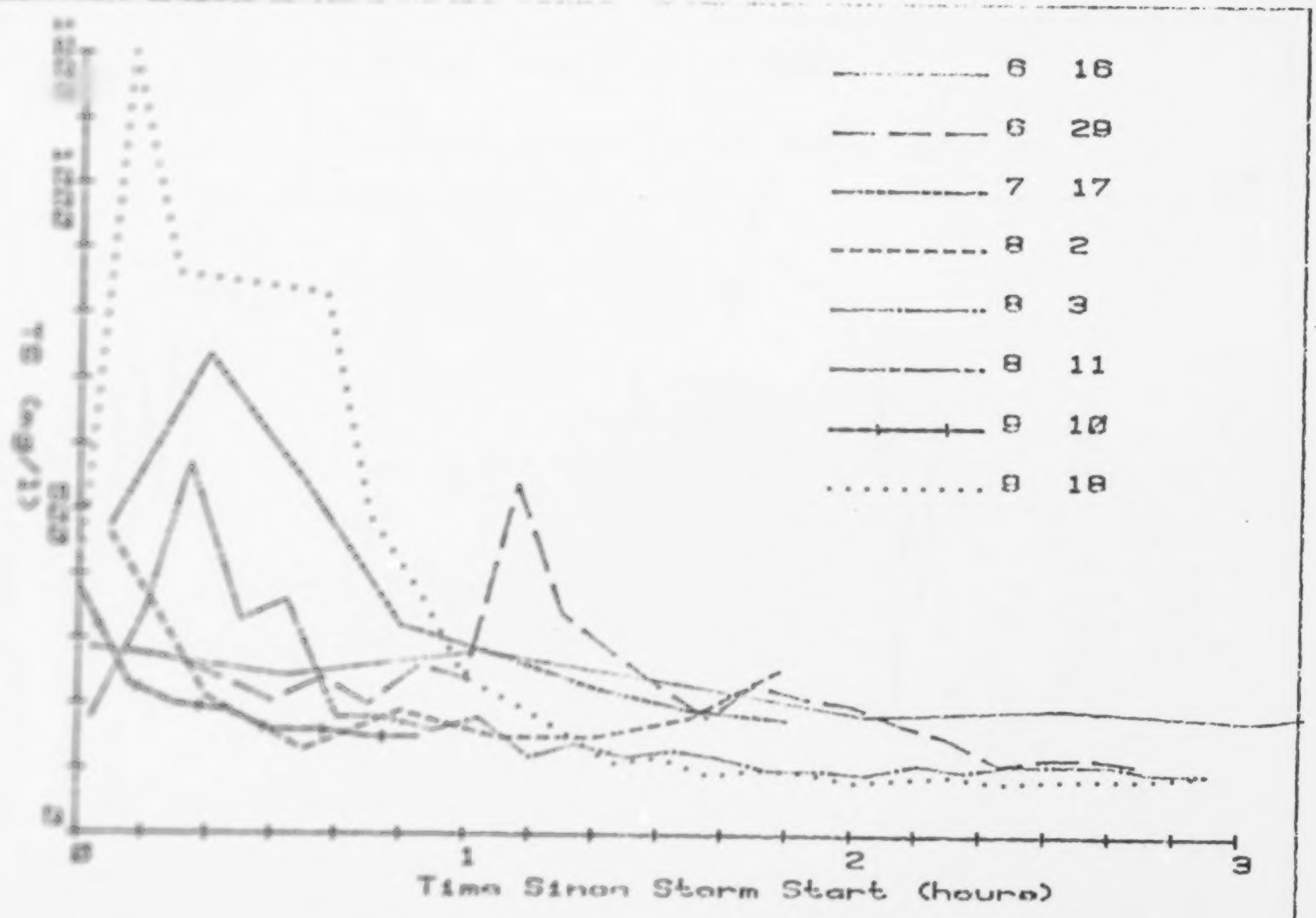


FIGURE A-88 ANNA ST. - TS

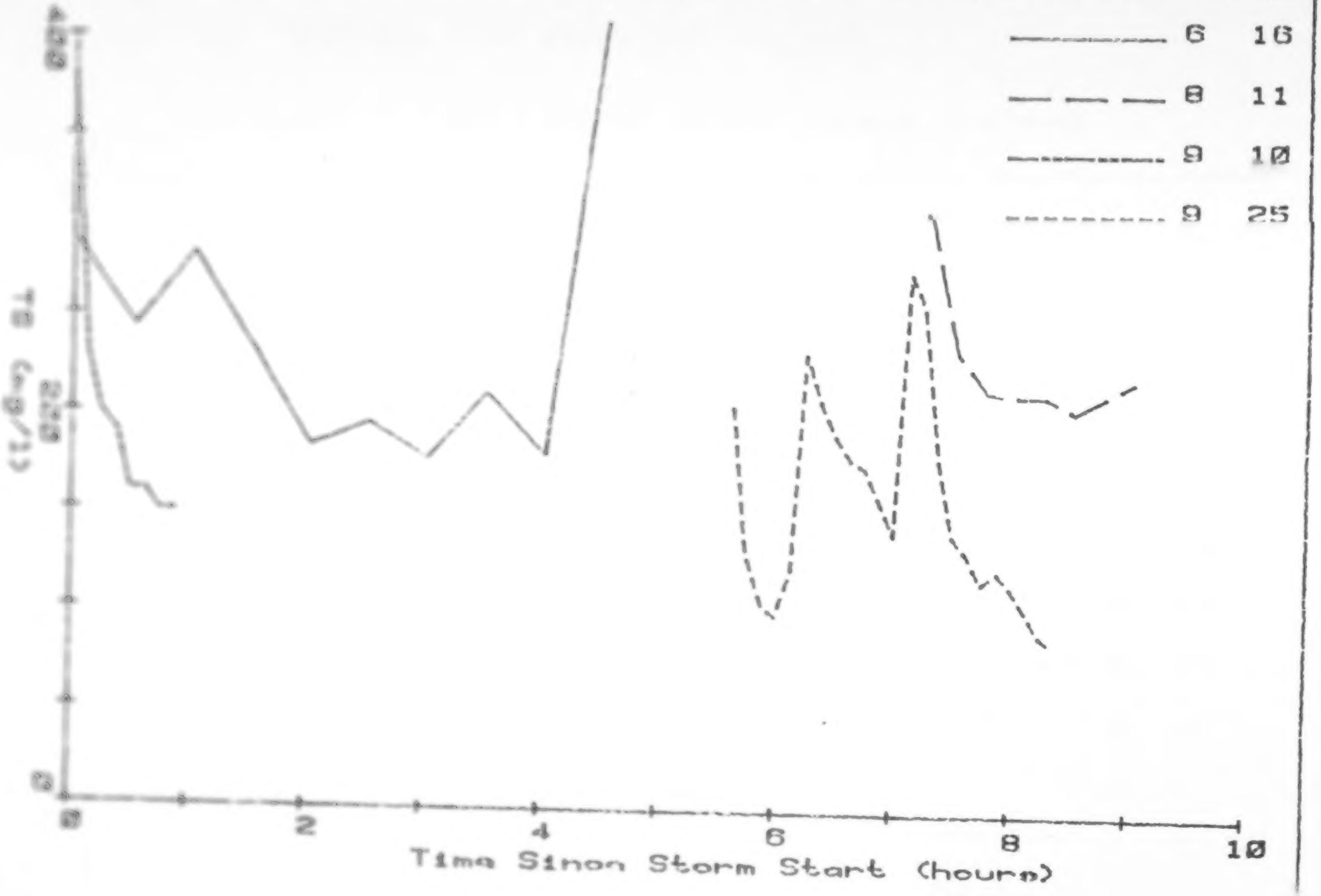


FIGURE A-89 ANNA ST. - TS

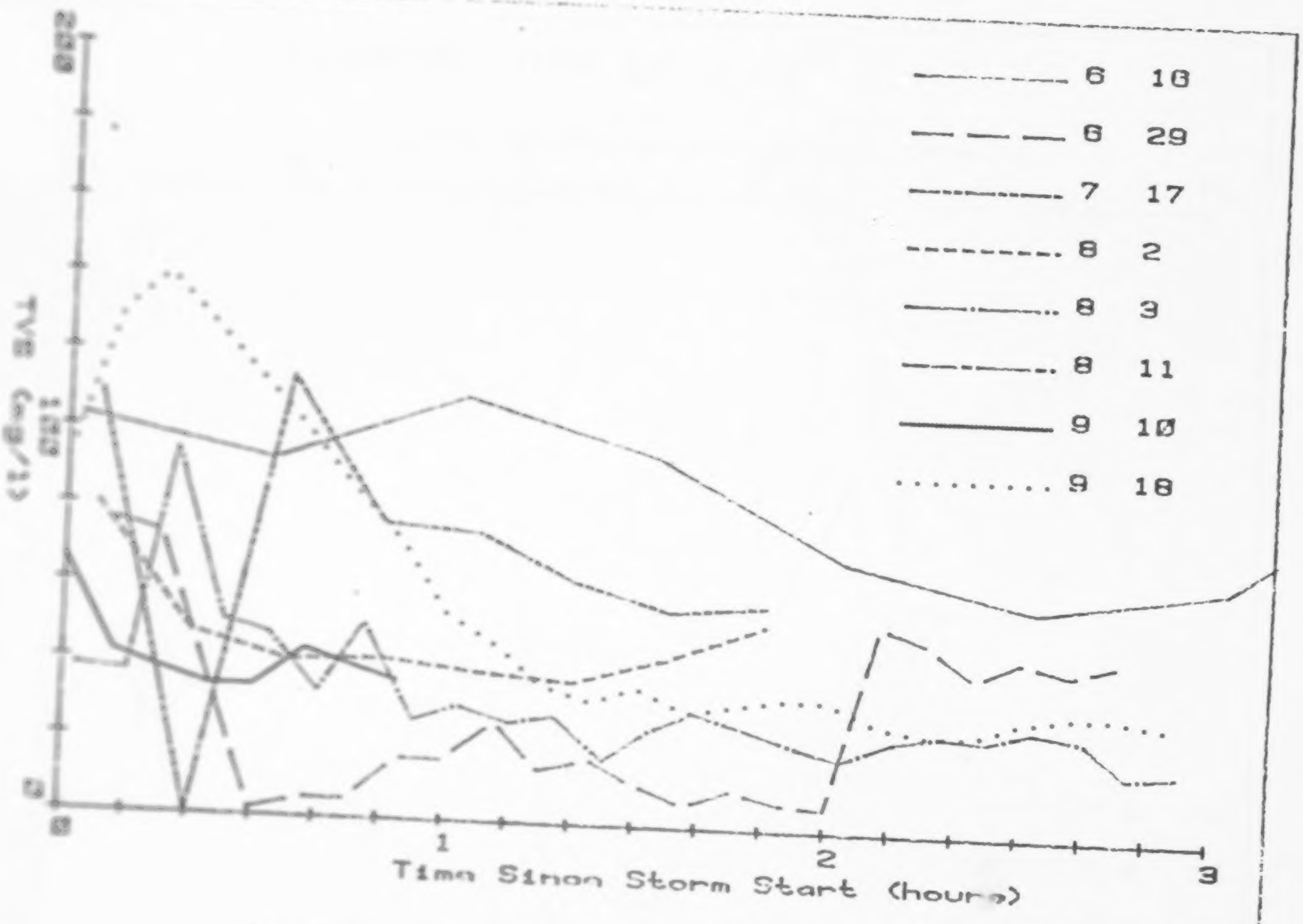


FIGURE A-90 ANNA ST. - TVS

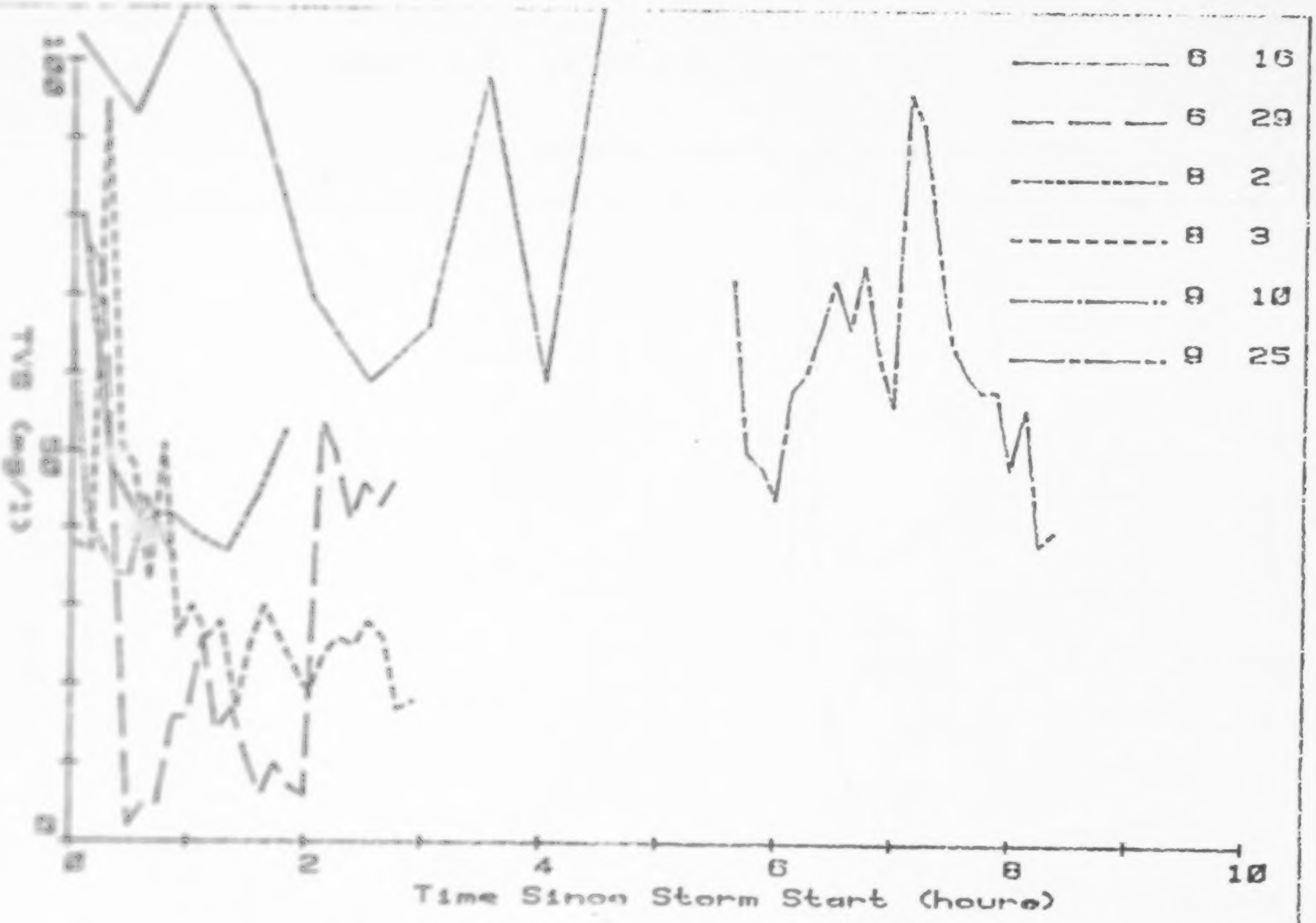


FIGURE A-91 ANNA ST. - TVS

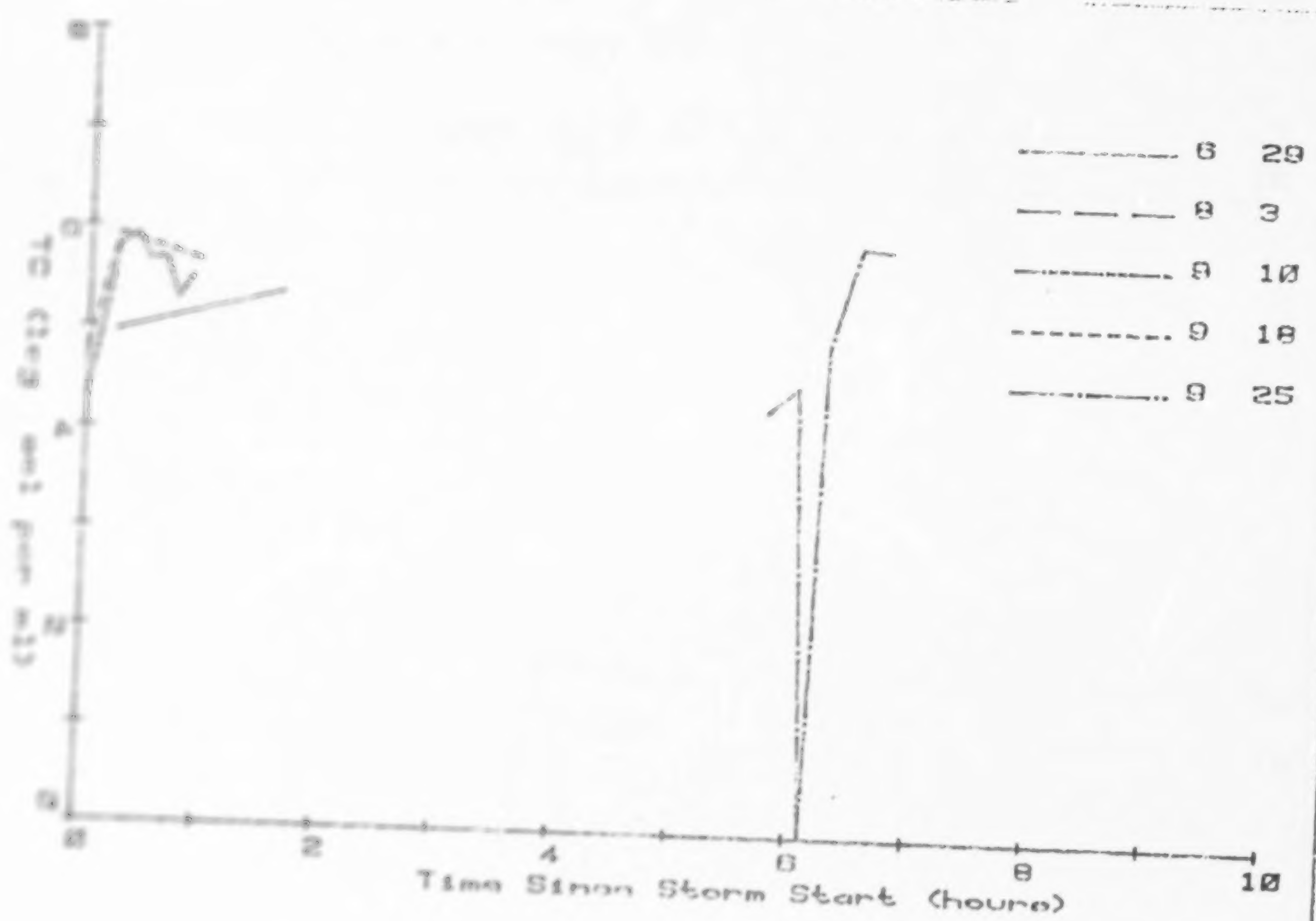


FIGURE A-92 ANNA ST. - TC

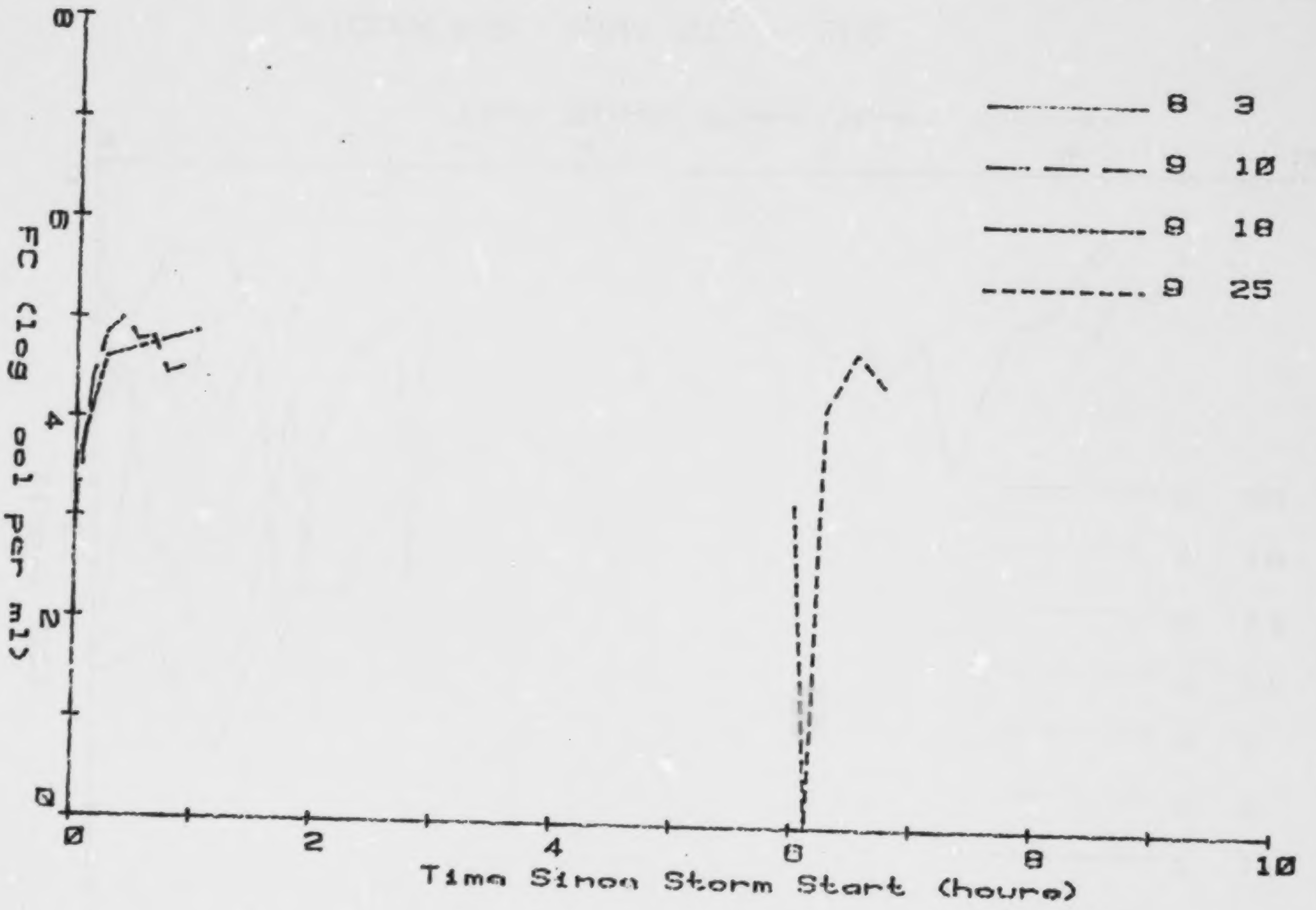


FIGURE A-93 ANNA ST. - FC

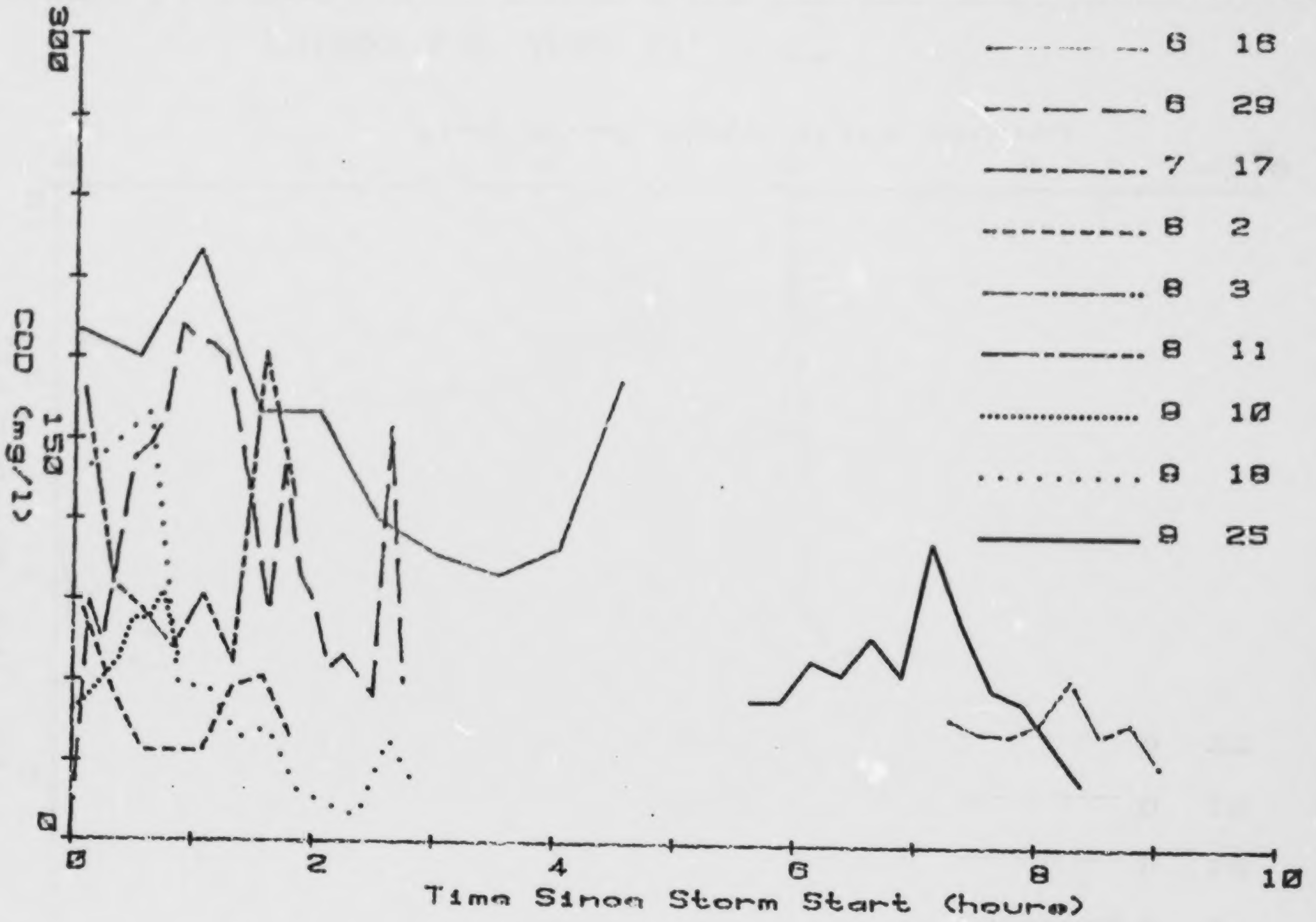


FIGURE A-94 ANNA ST. - COD

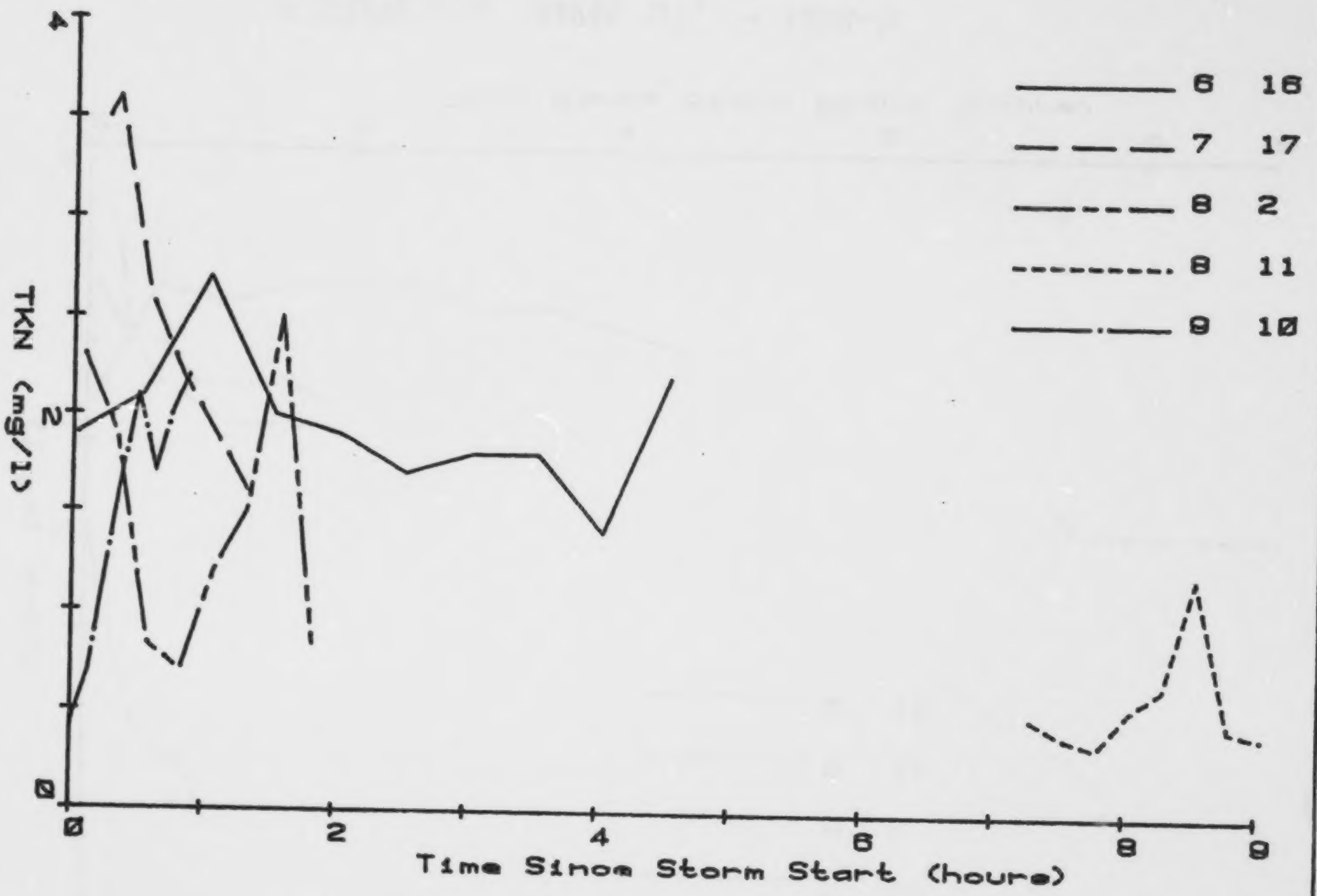


FIGURE A-95 ANNA ST. - TKN

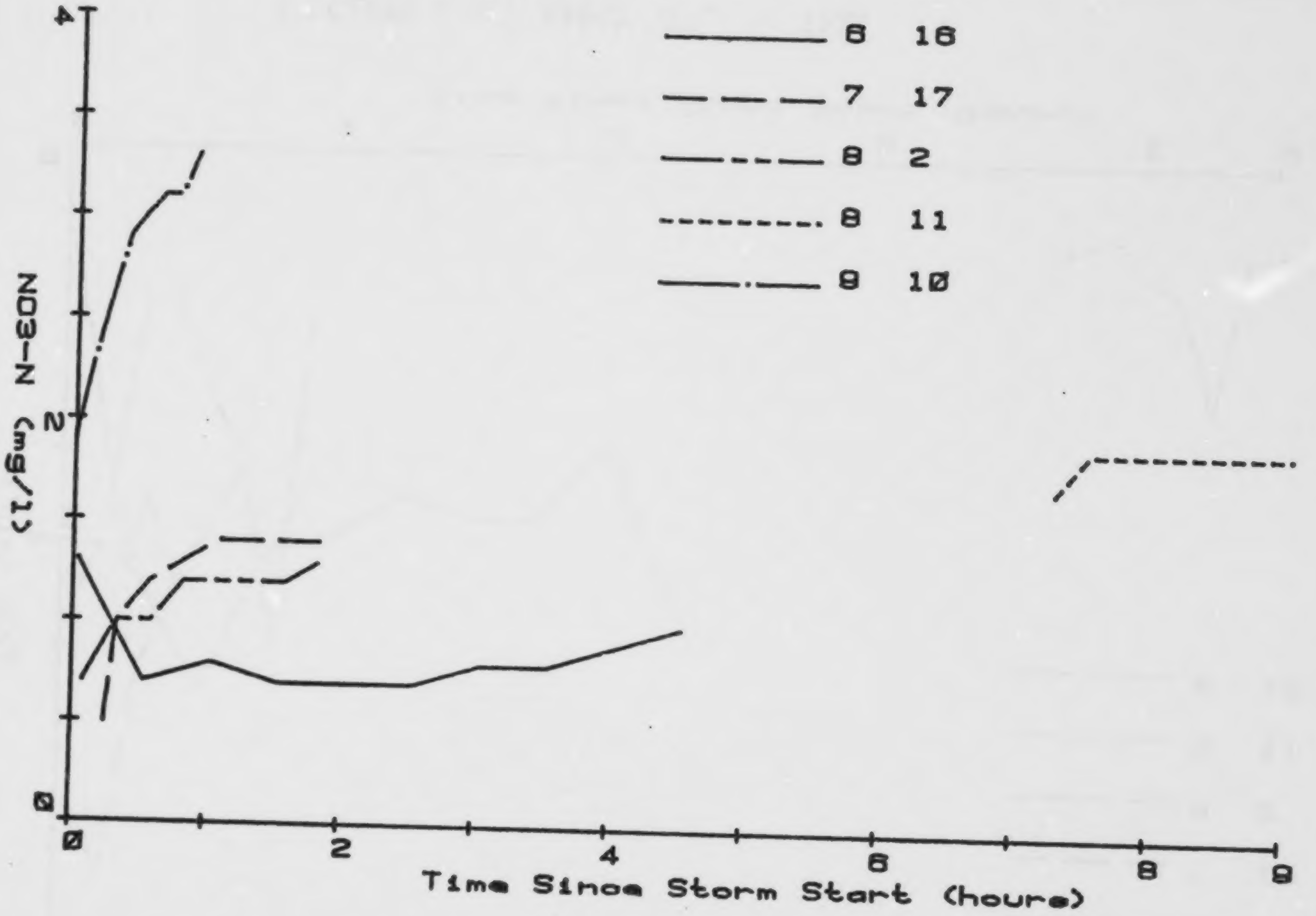


FIGURE A-96 ANNA ST. - NO3-N

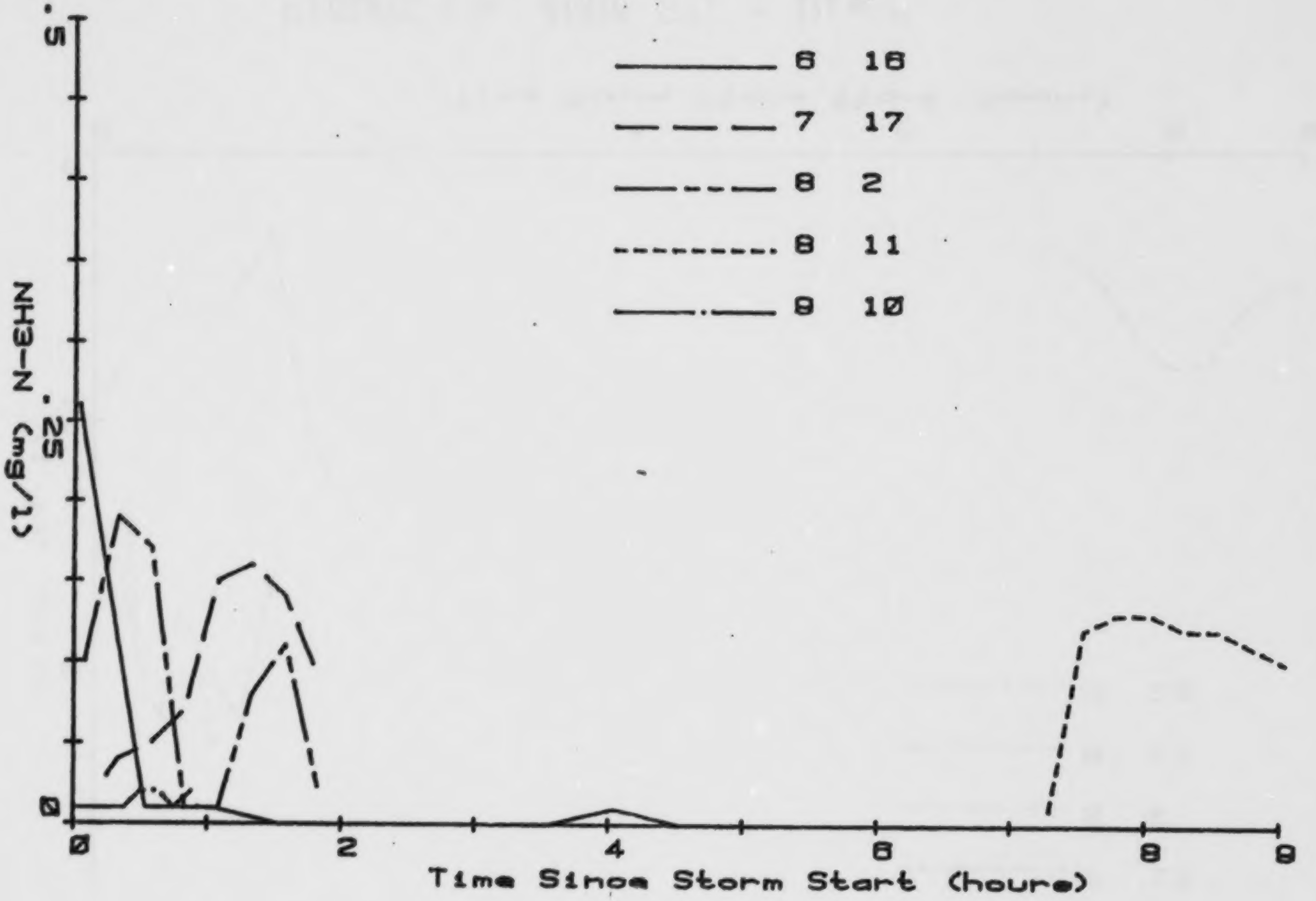


FIGURE A-97 ANNA ST. - NH3-N

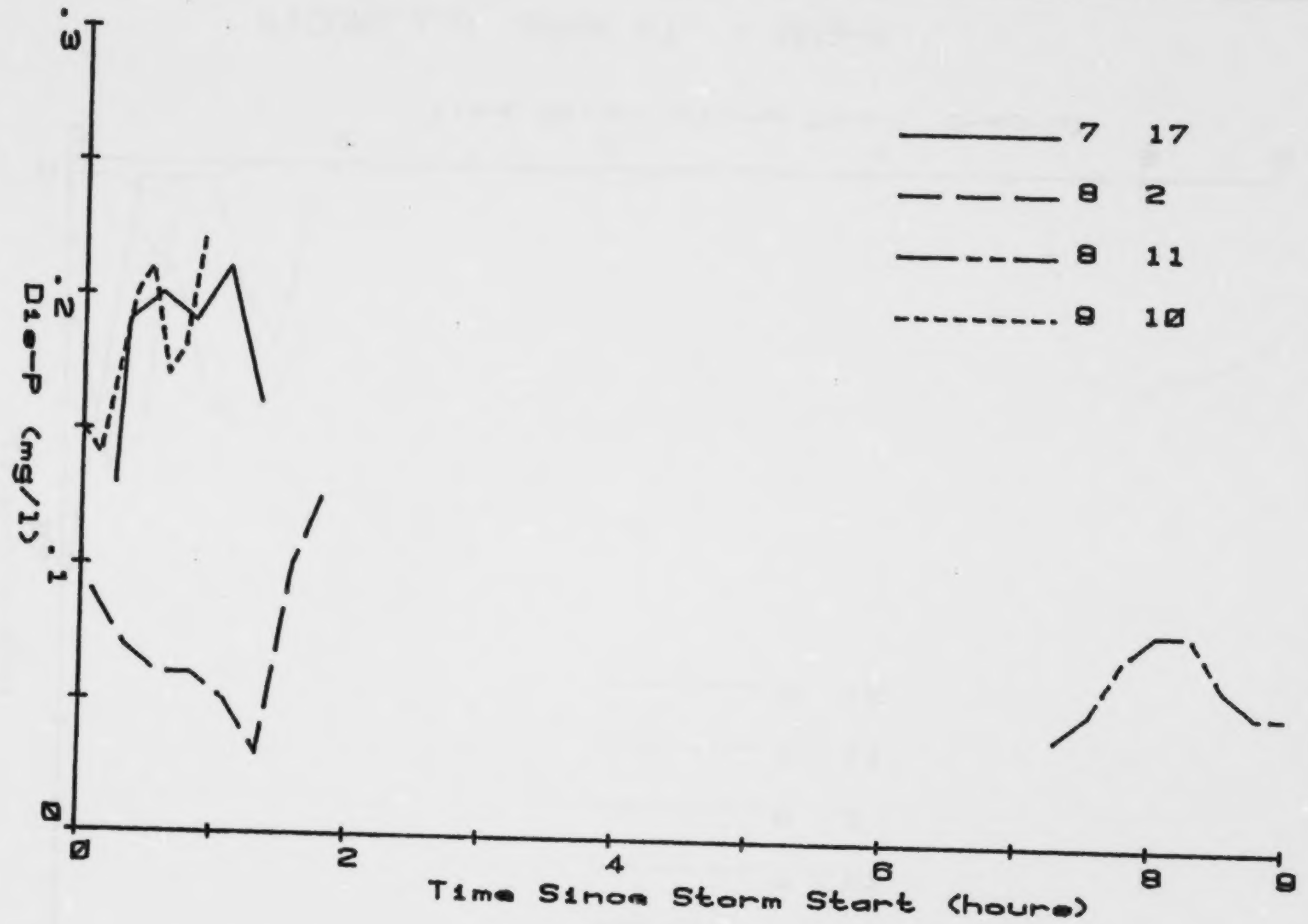


FIGURE A-98 ANNA ST. - Dis-P

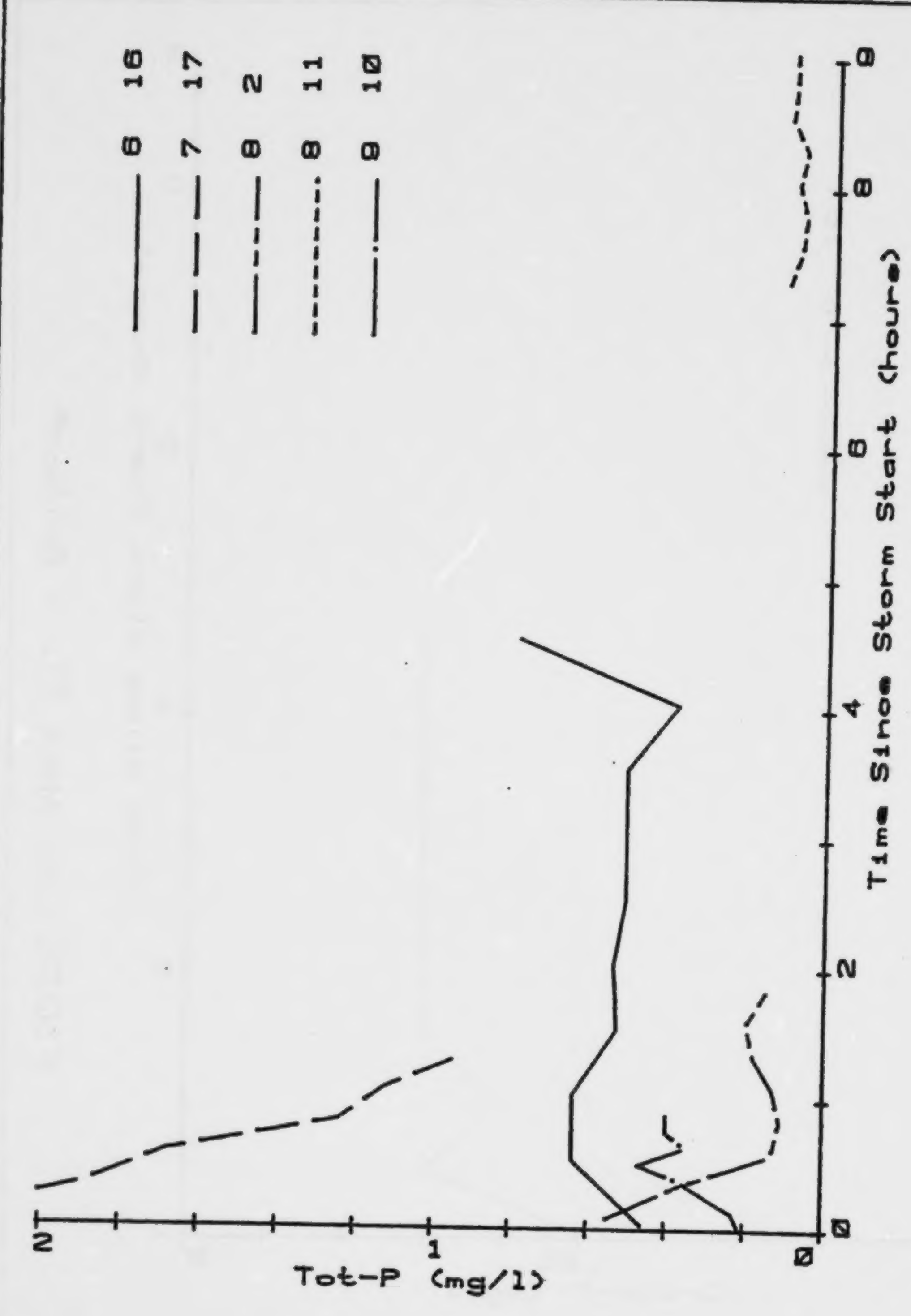


FIGURE A-99 ANNA ST. - Tot-P

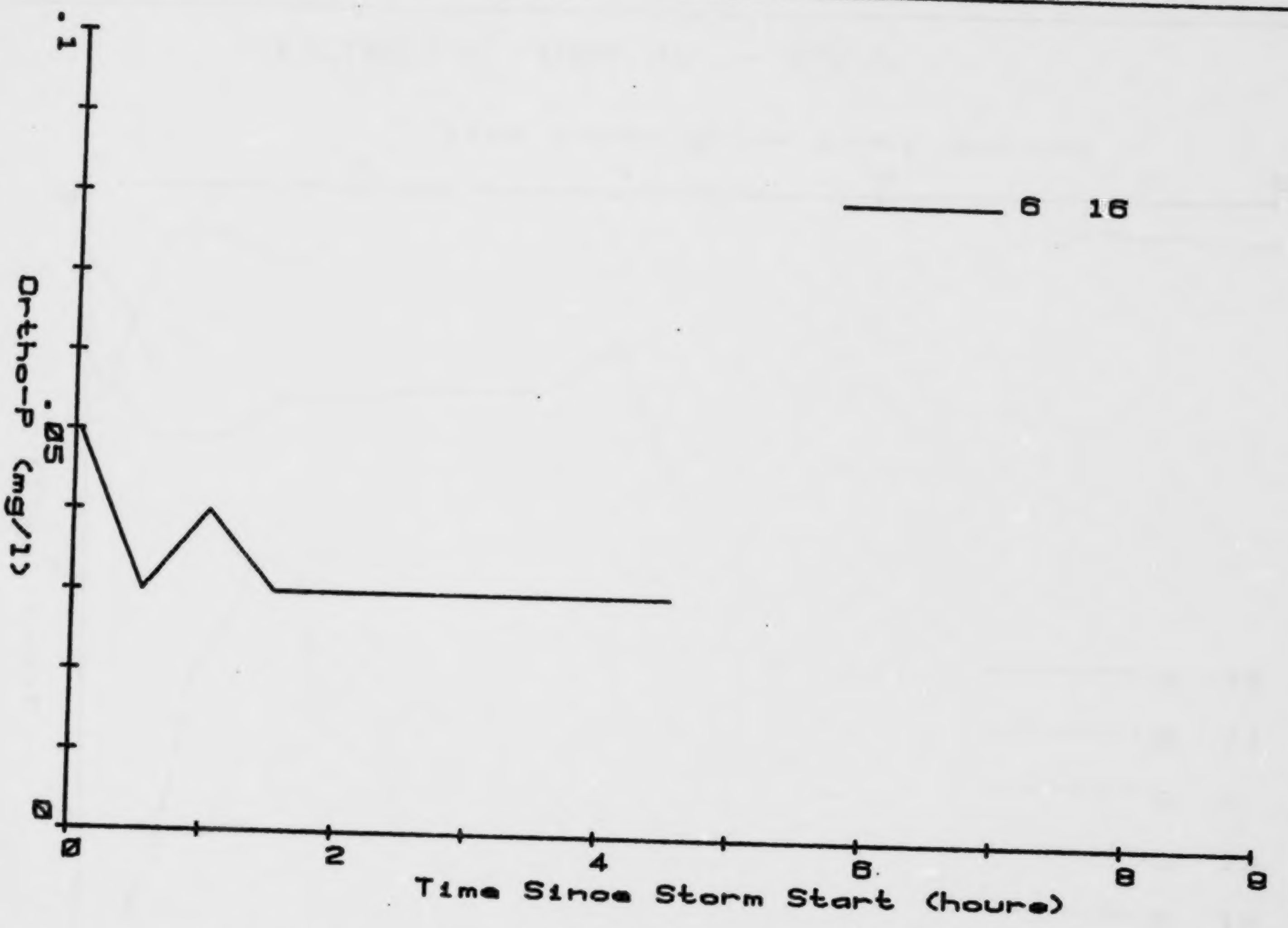


FIGURE A-100 ANNA ST. - Ortho-P

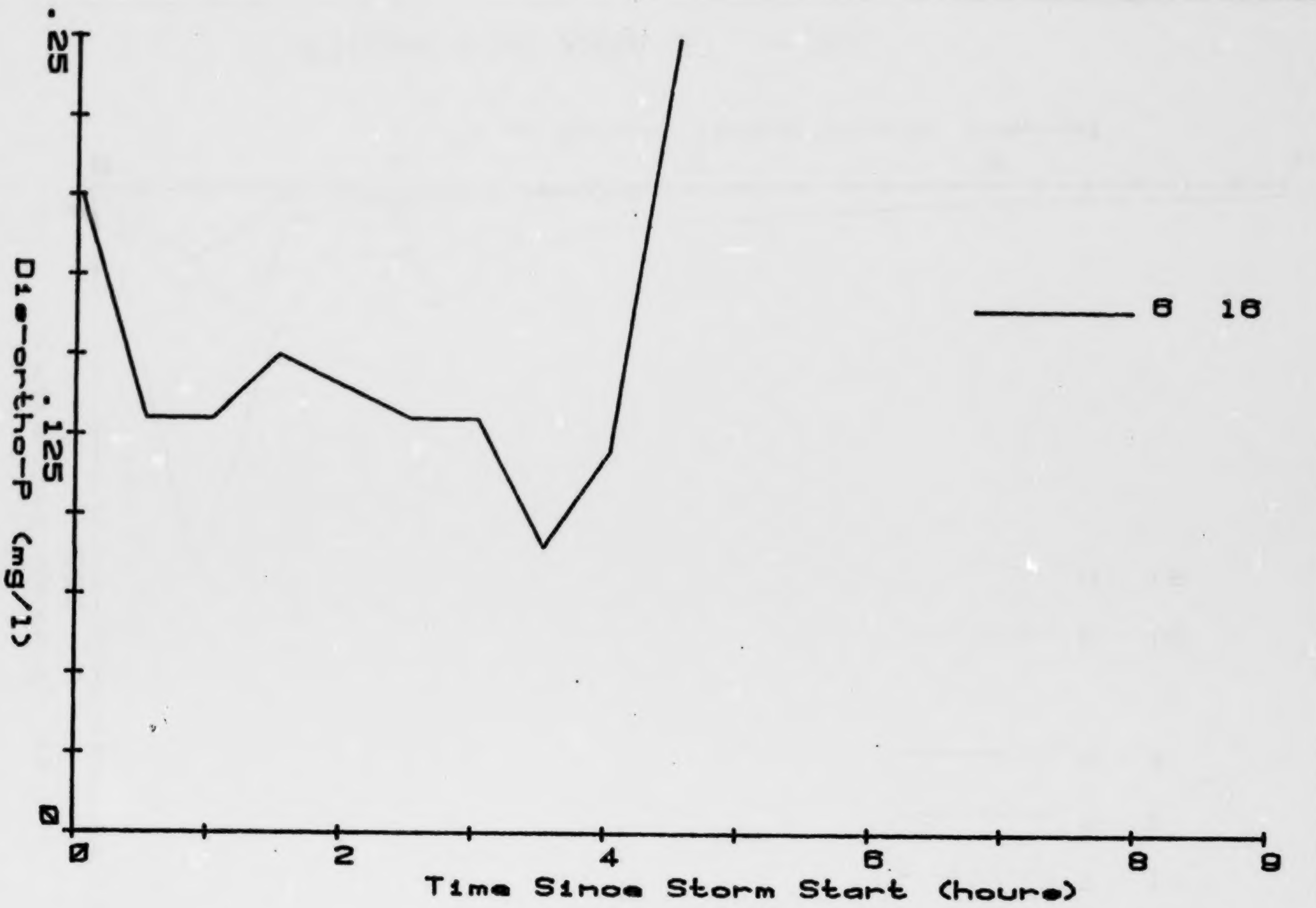


FIGURE A-101 ANNA ST. - Dis-ortho-P

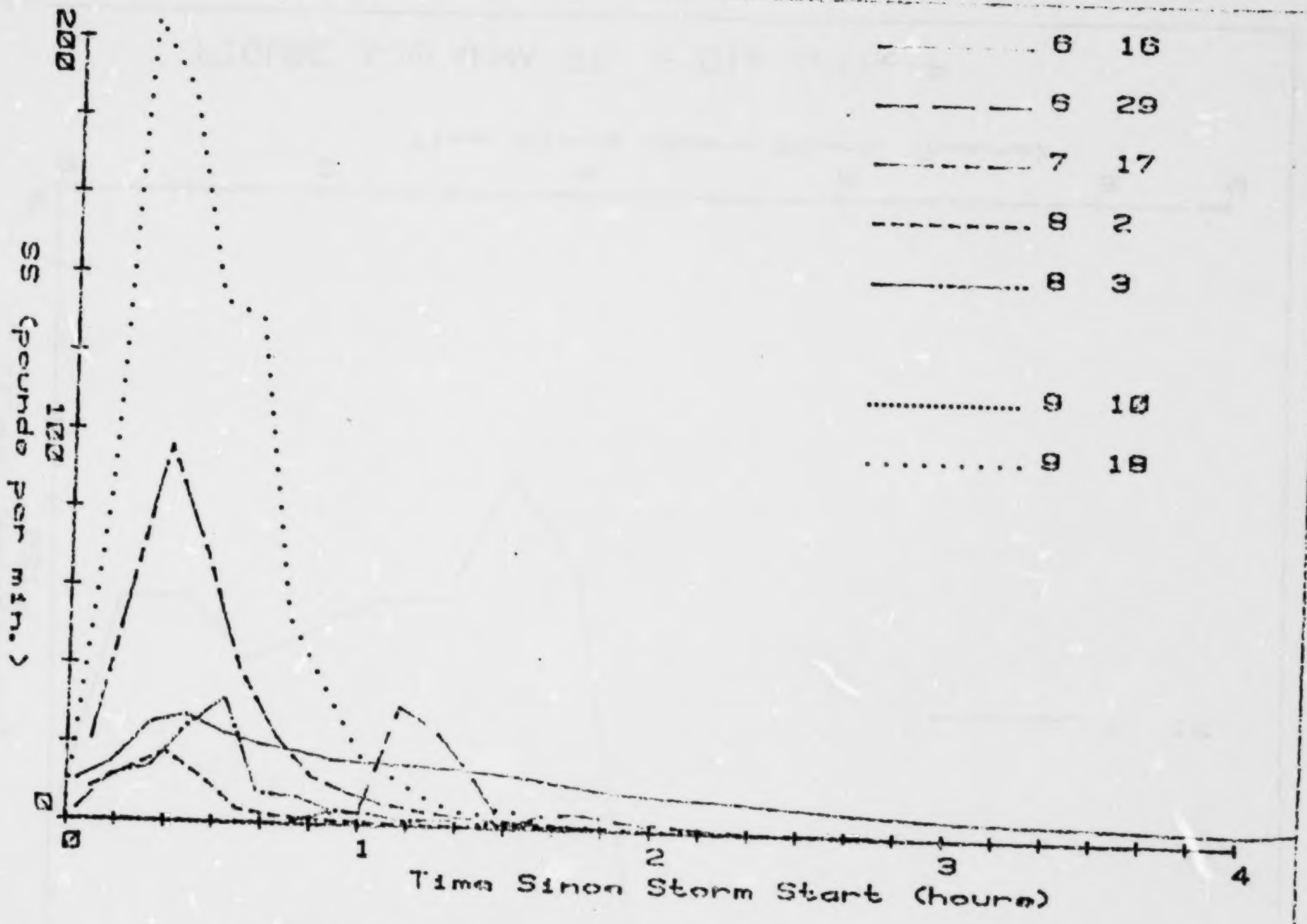


FIGURE A-102 ANNA ST. - SS

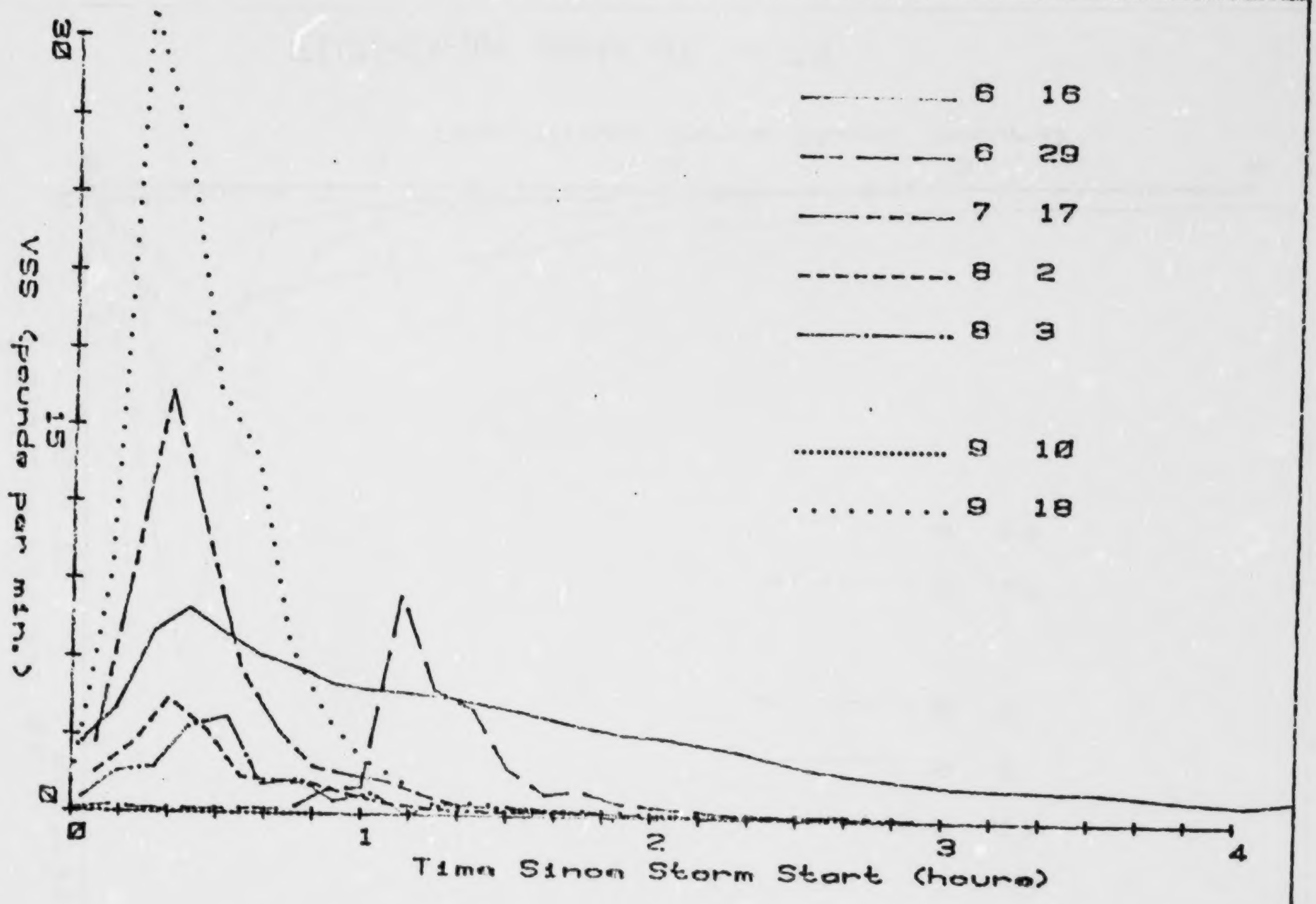
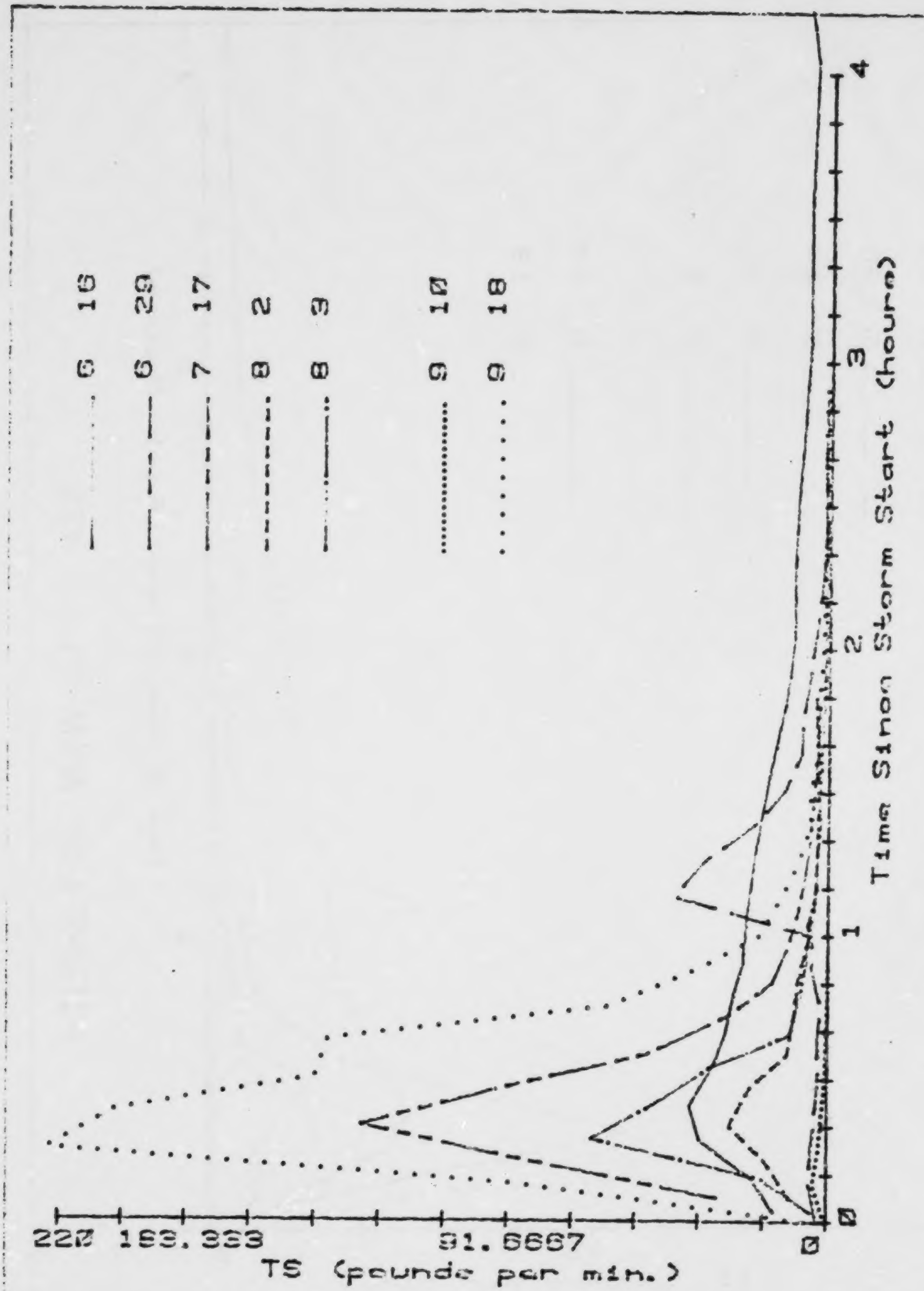


FIGURE A-103 ANNA ST. – VSS



FIGUREA-104 ANNA ST. - TS

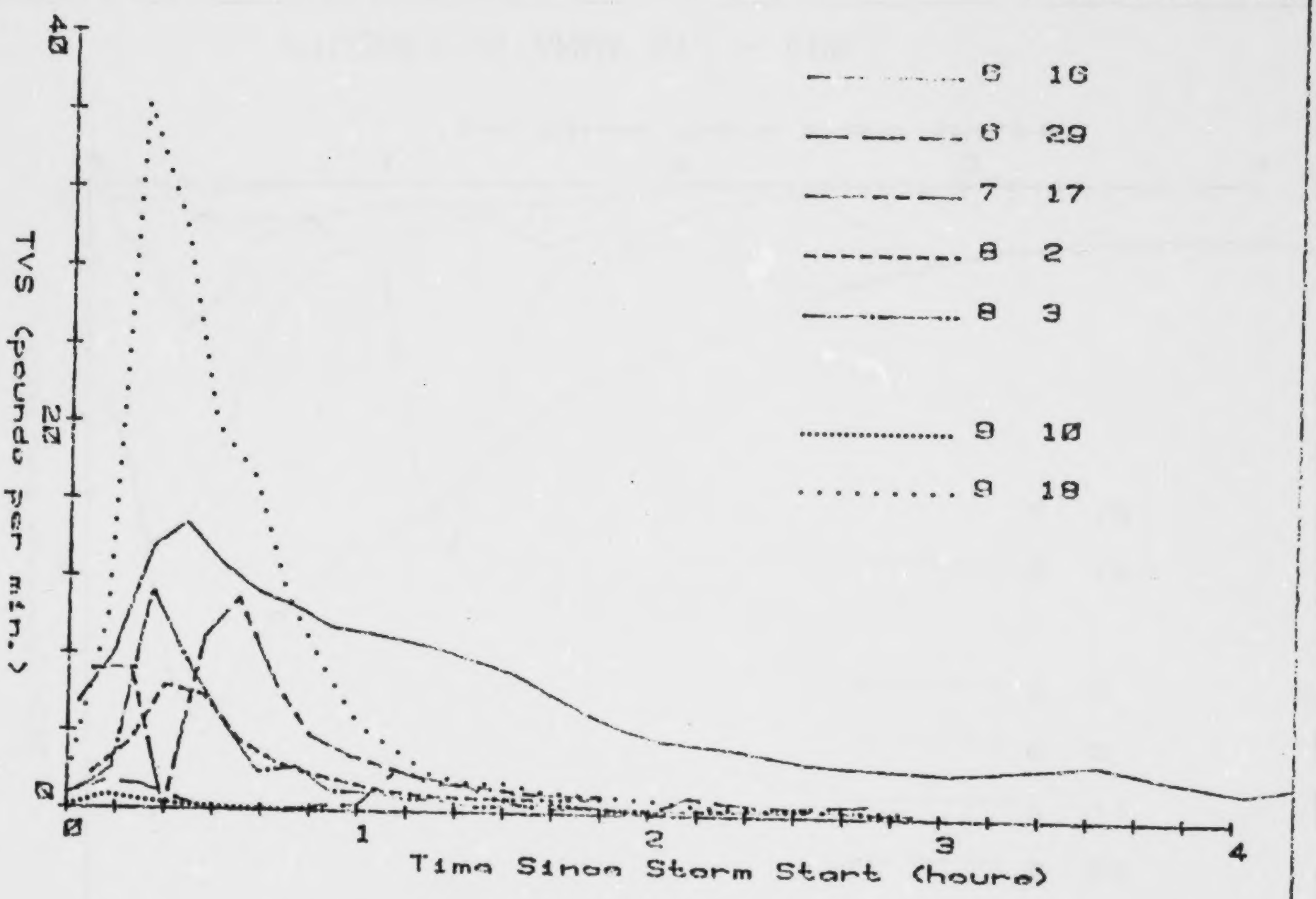


FIGURE A-105 ANNA ST. - TVS

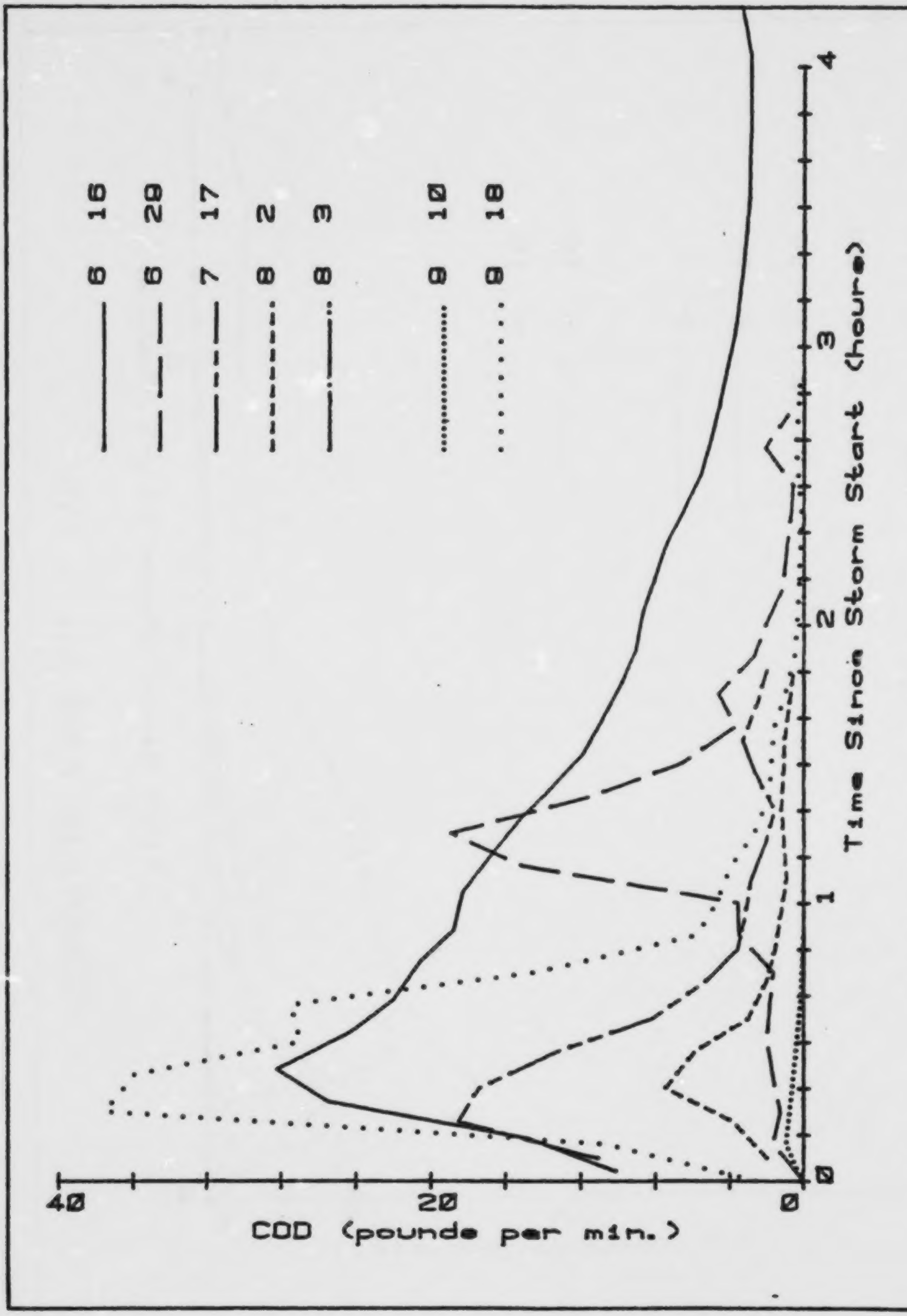


FIGURE A-106 ANNA ST. - COD

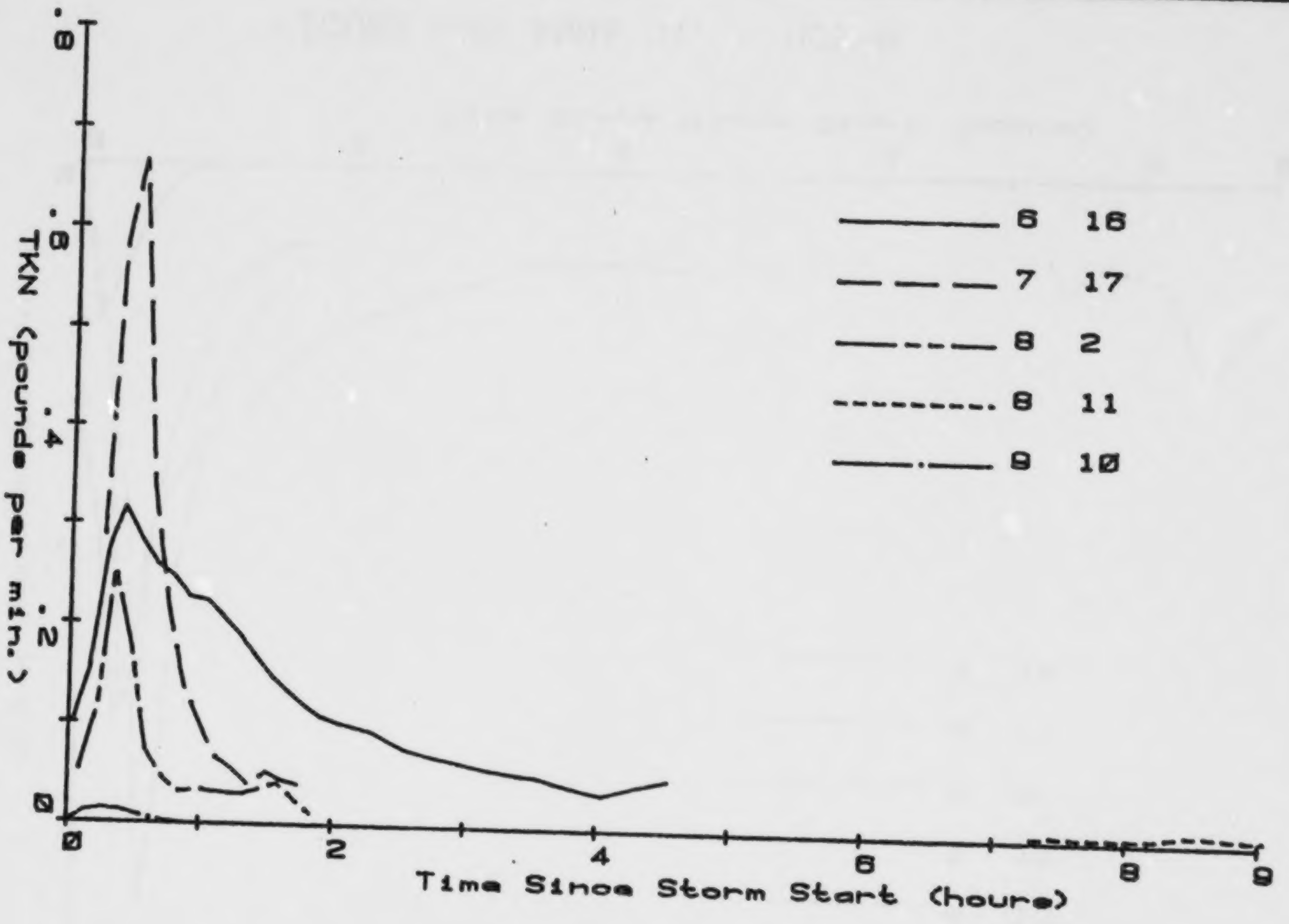


FIGURE A-107 ANNA ST. - TKN

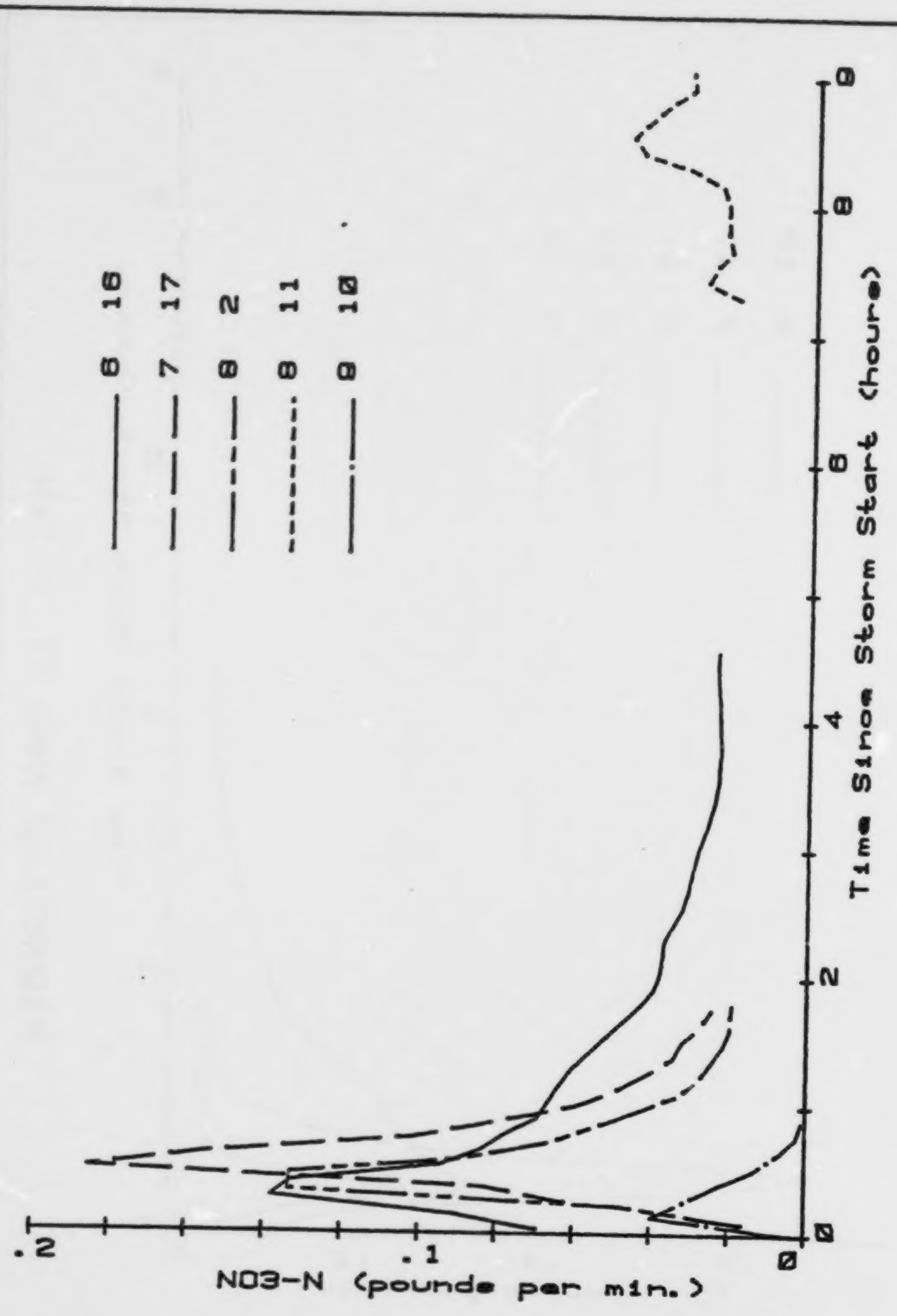


FIGURE A-108 ANNA ST. - NO3-N

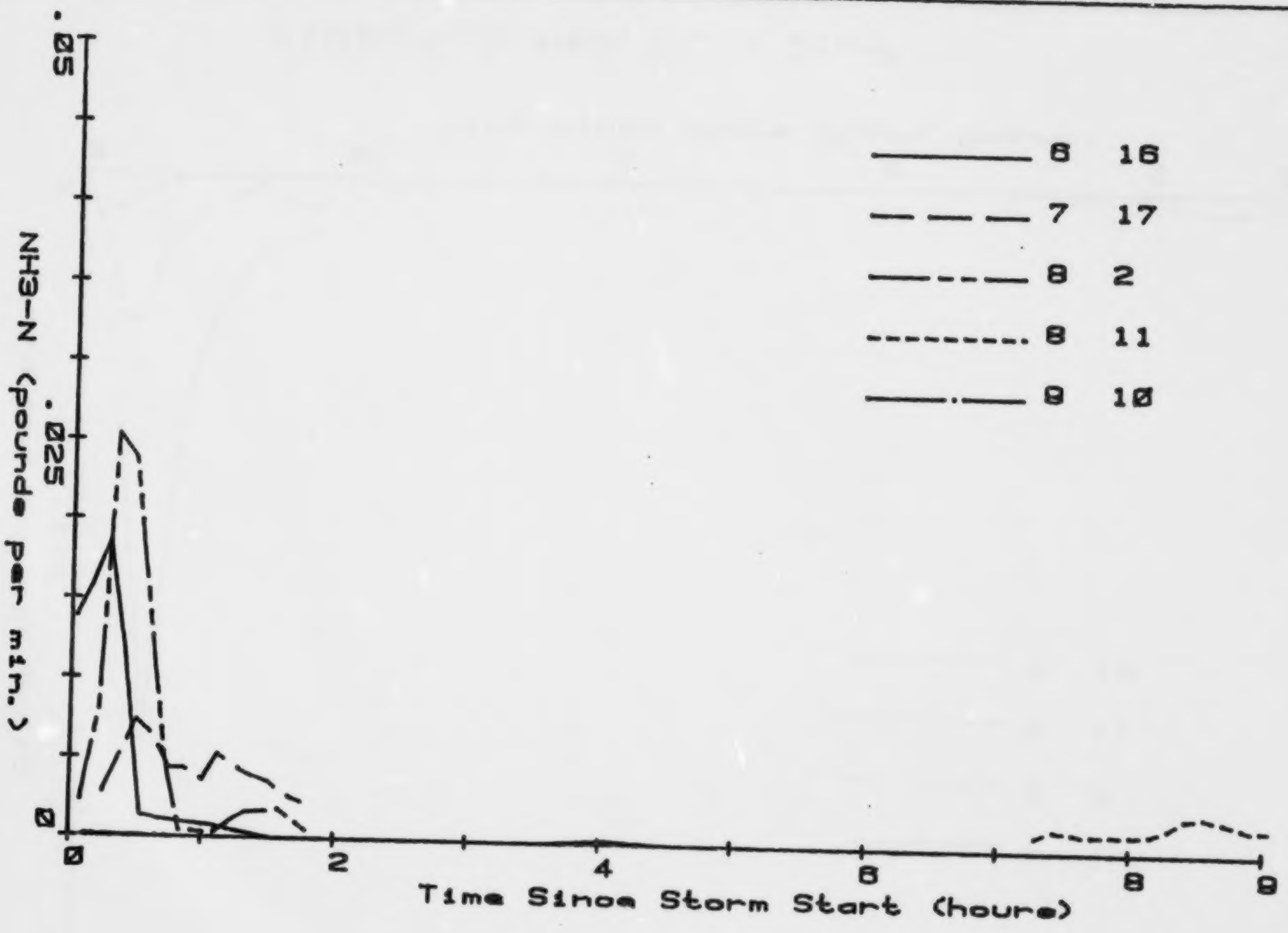


FIGURE A-109 ANNA ST. - NH3-N

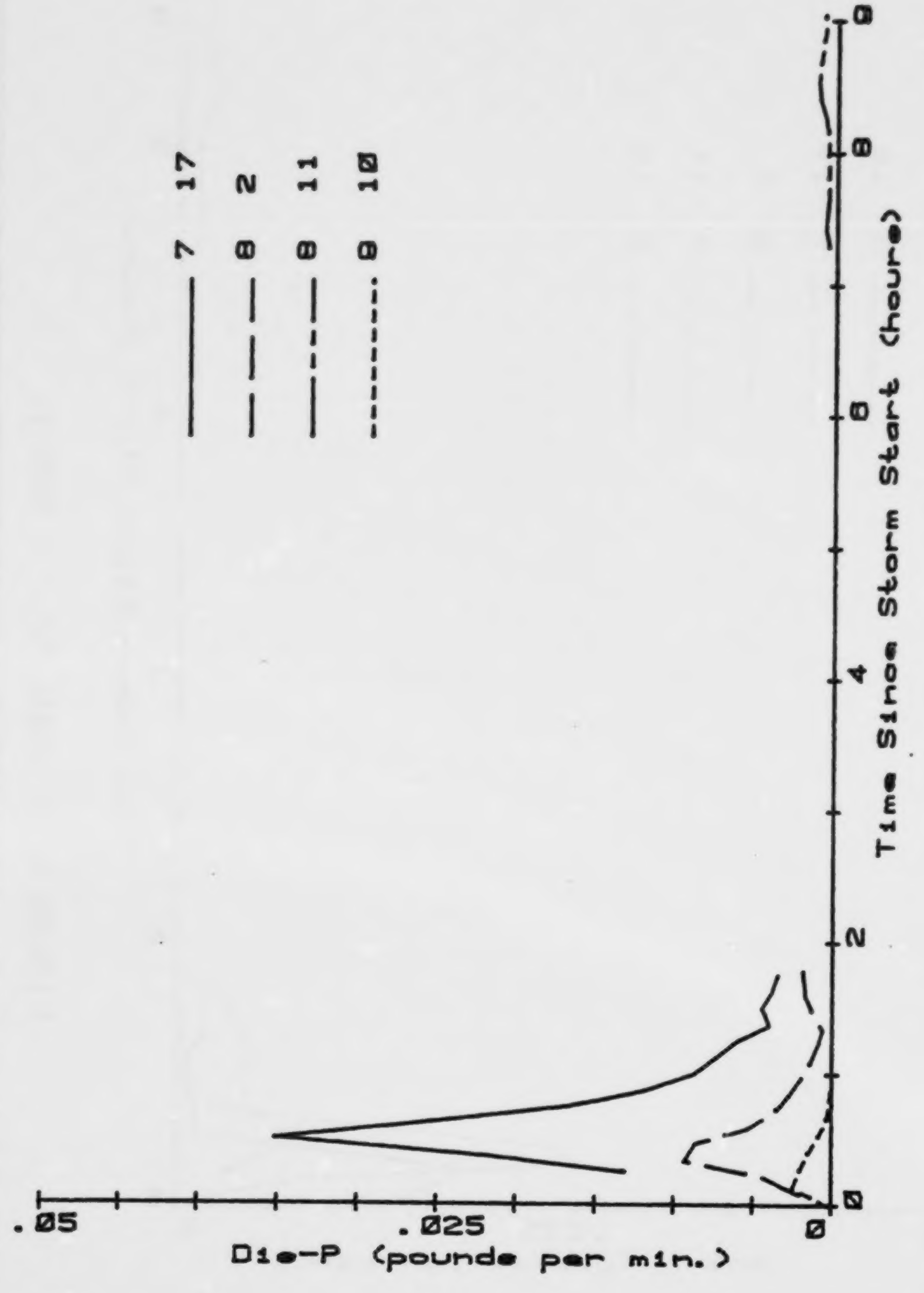


FIGURE A-110 ANNA ST. - Dis-P

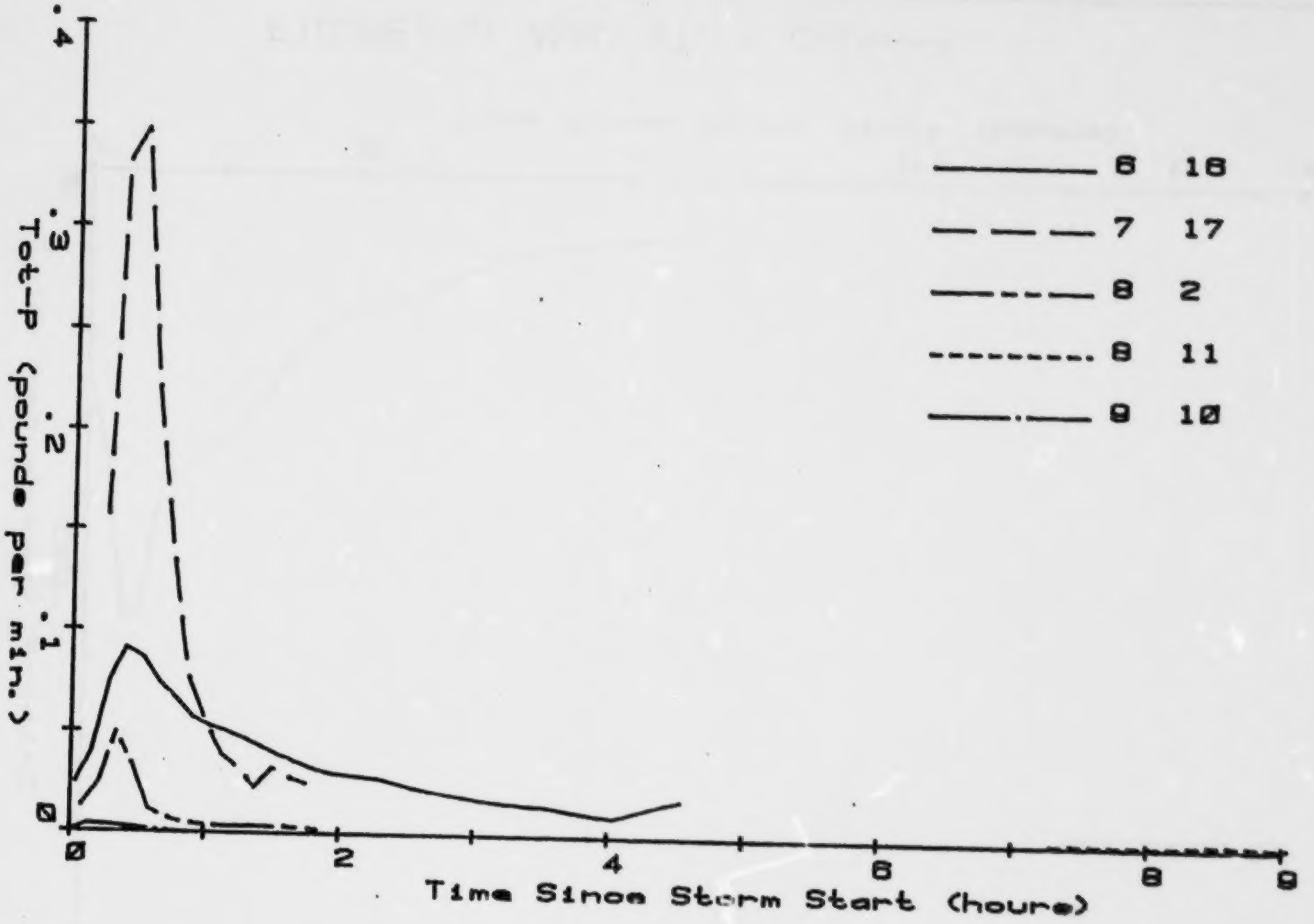


FIGURE A-111 ANNA ST. - Tot-P

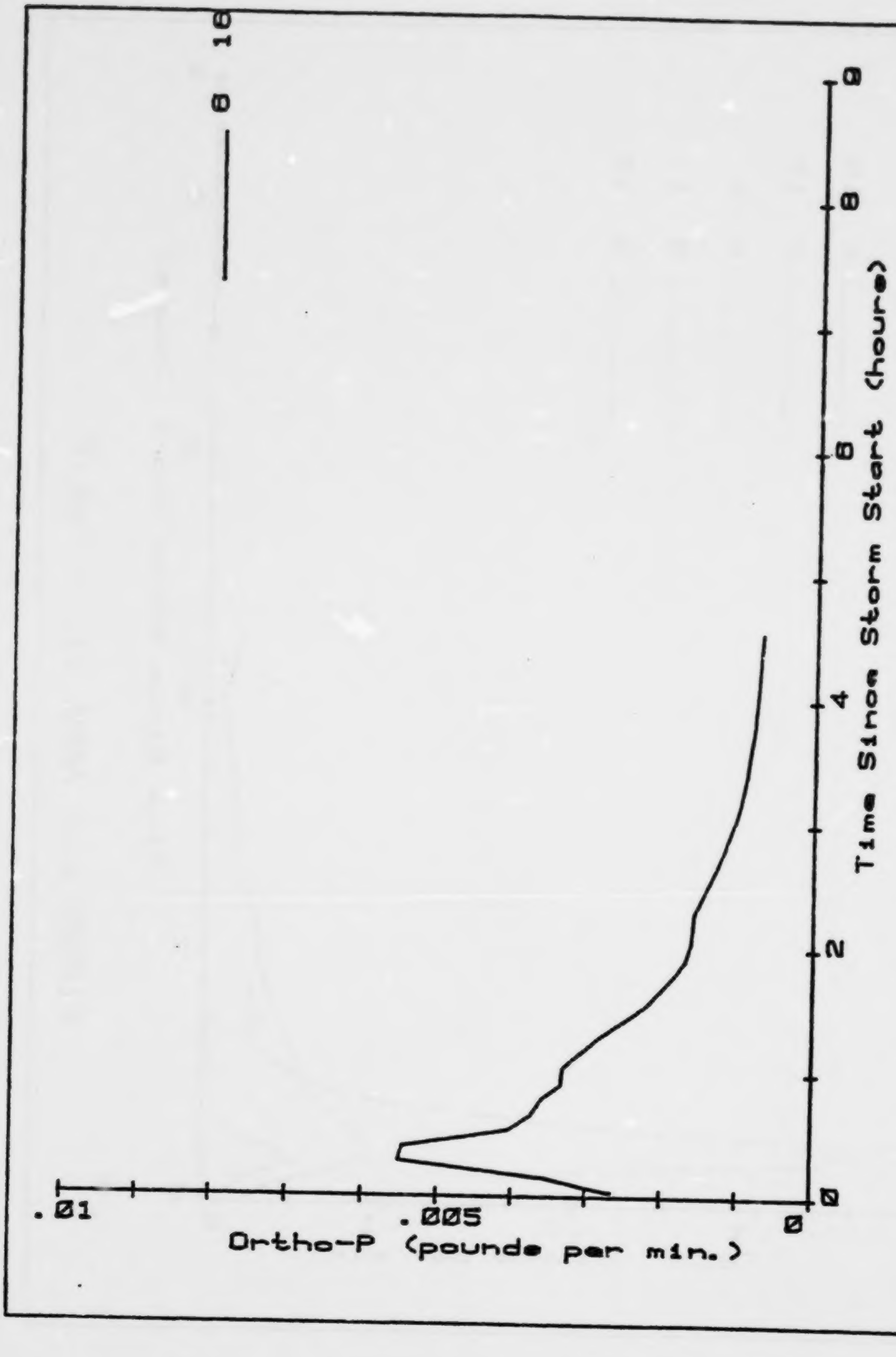


FIGURE A-112 ANNA ST. - Ortho-P

115

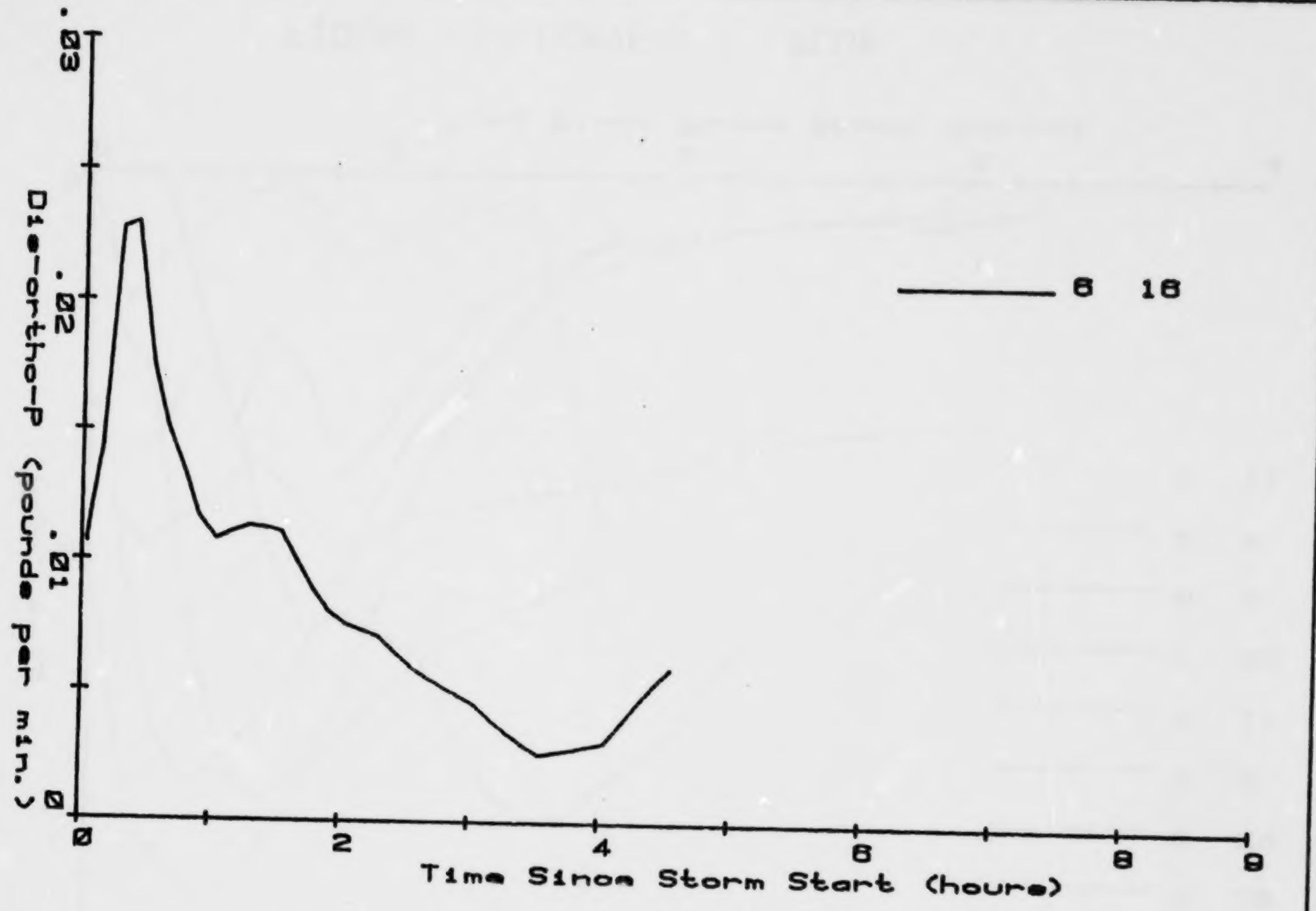


FIGURE A-113 ANNA ST. - Dis-ortho-P

116

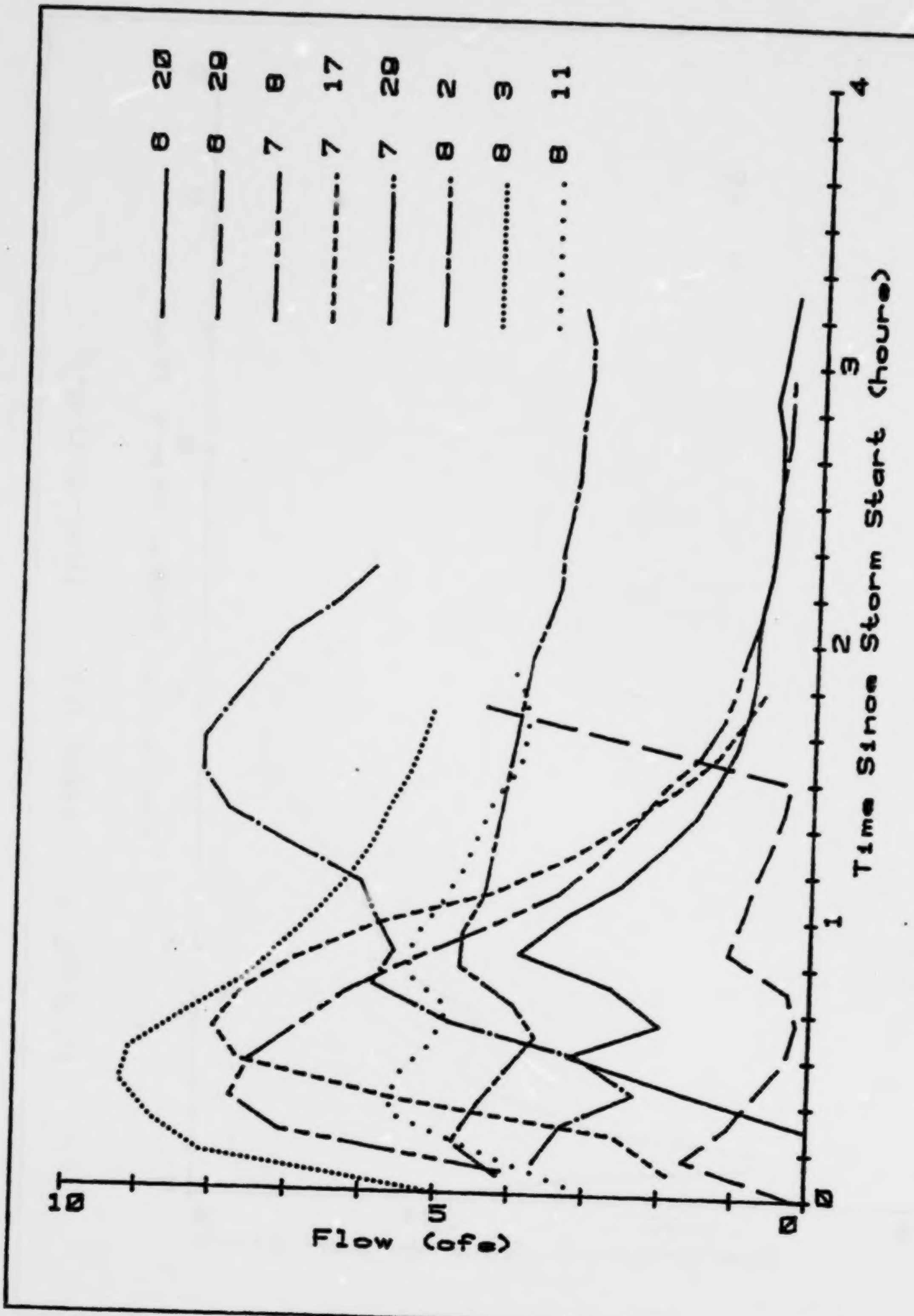


FIGURE A-114 CONVENT - FLOW

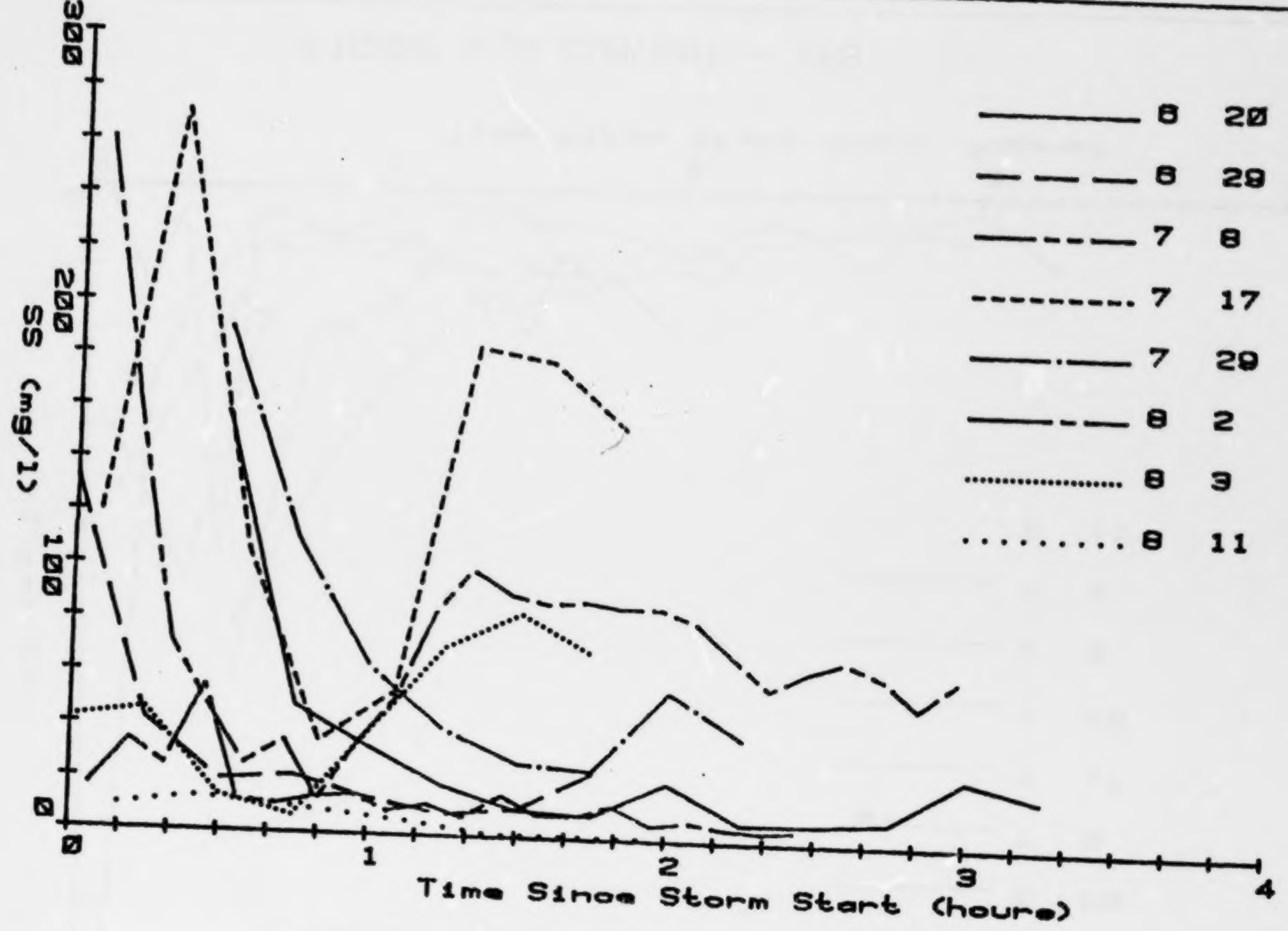


FIGURE A-115 CONVENT - SS

118

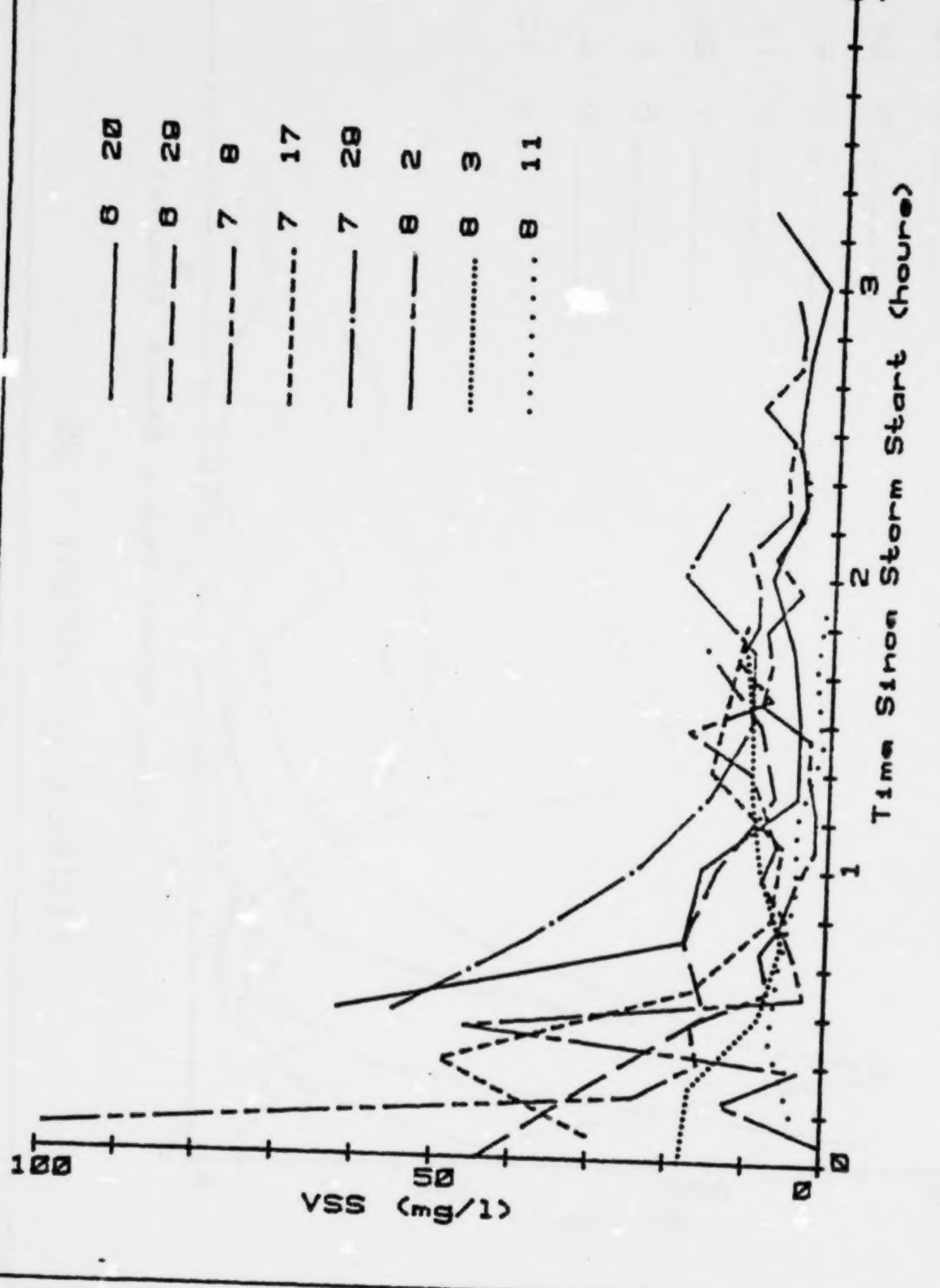


FIGURE A-116 CONVENT - VSS

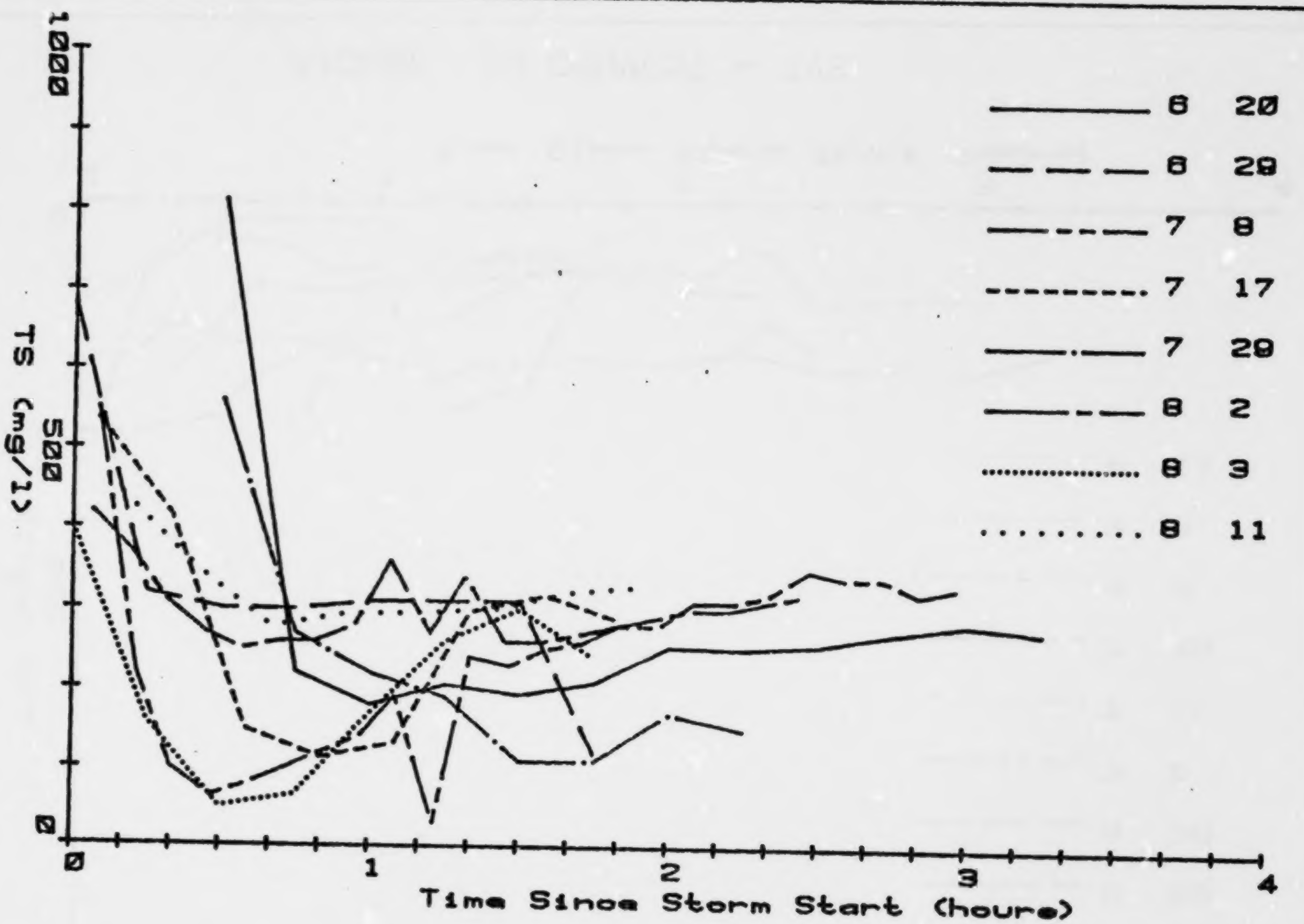


FIGURE A-117 CONVENT - TS

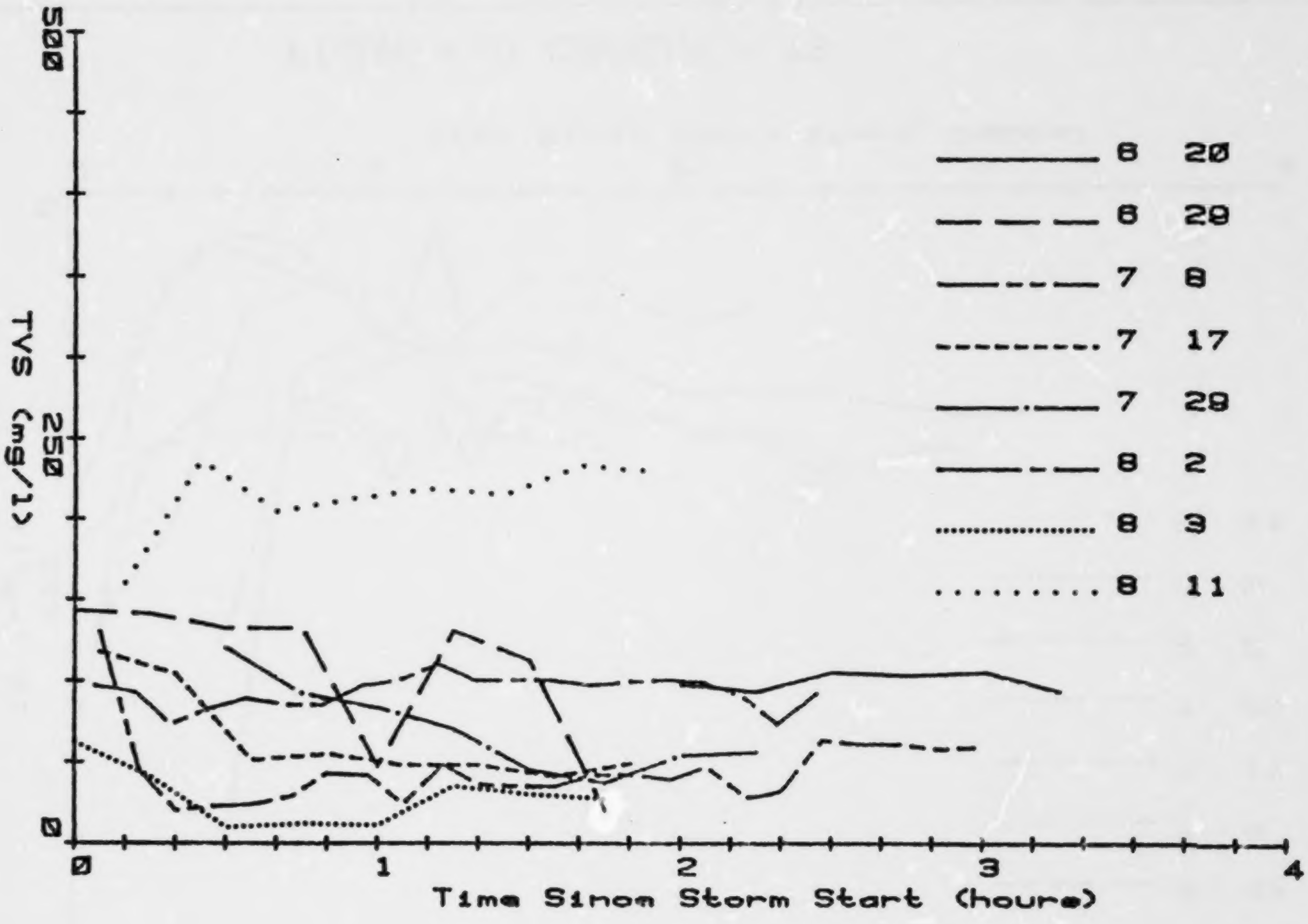


FIGURE A-118 CONVENT - TVS

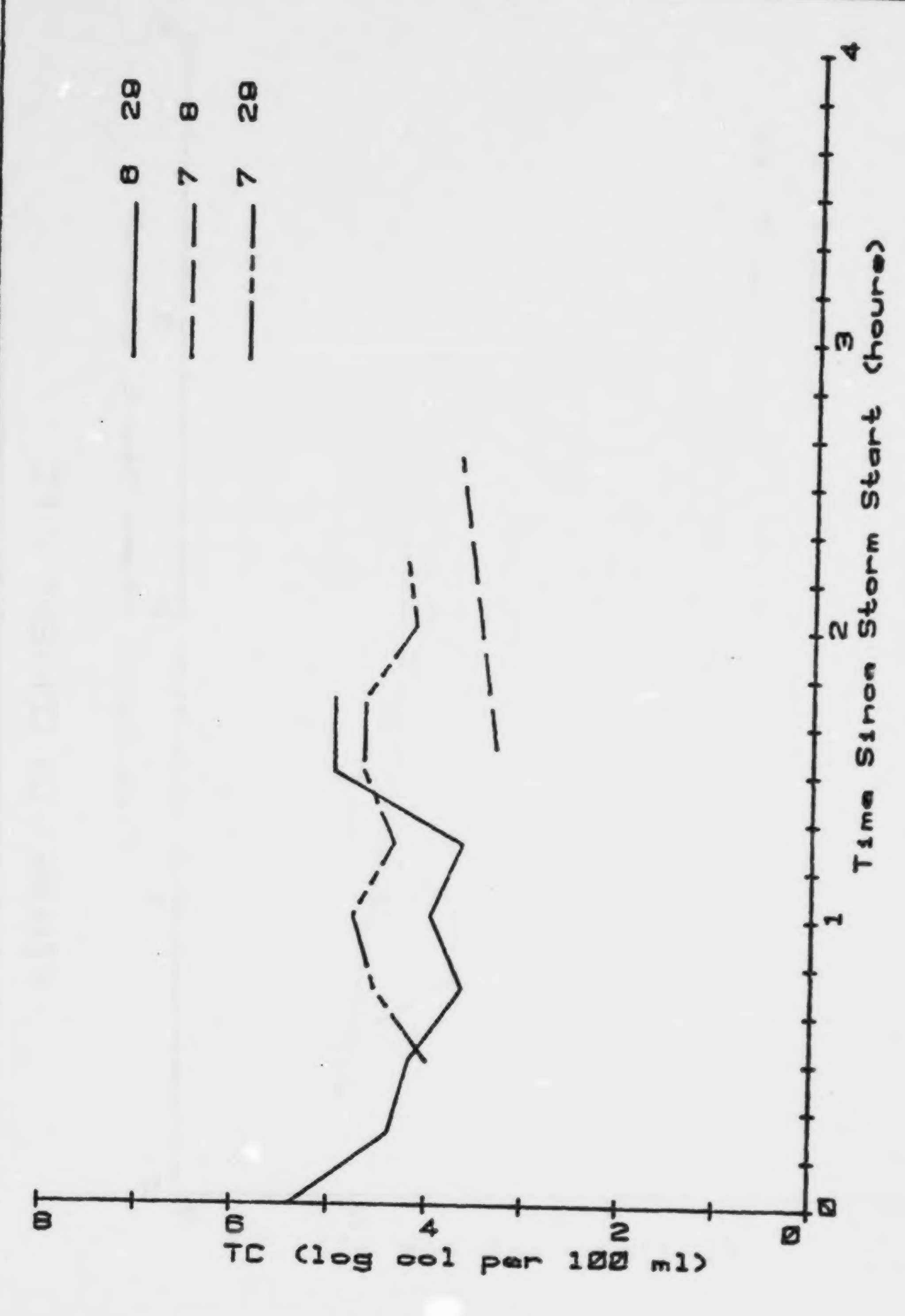


FIGURE A-119 CONVENT - TC

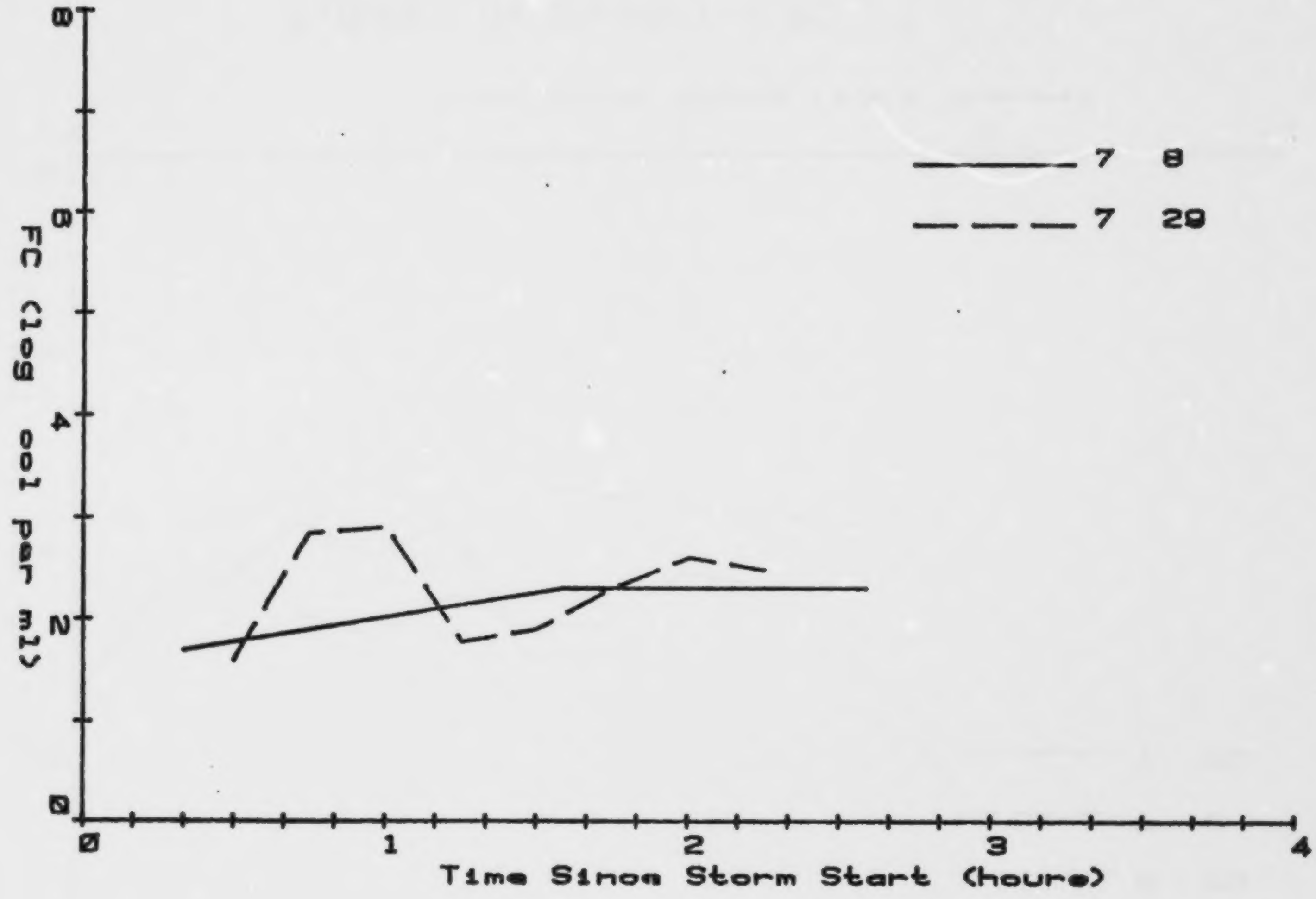


FIGURE A-120 CONVENT - FC

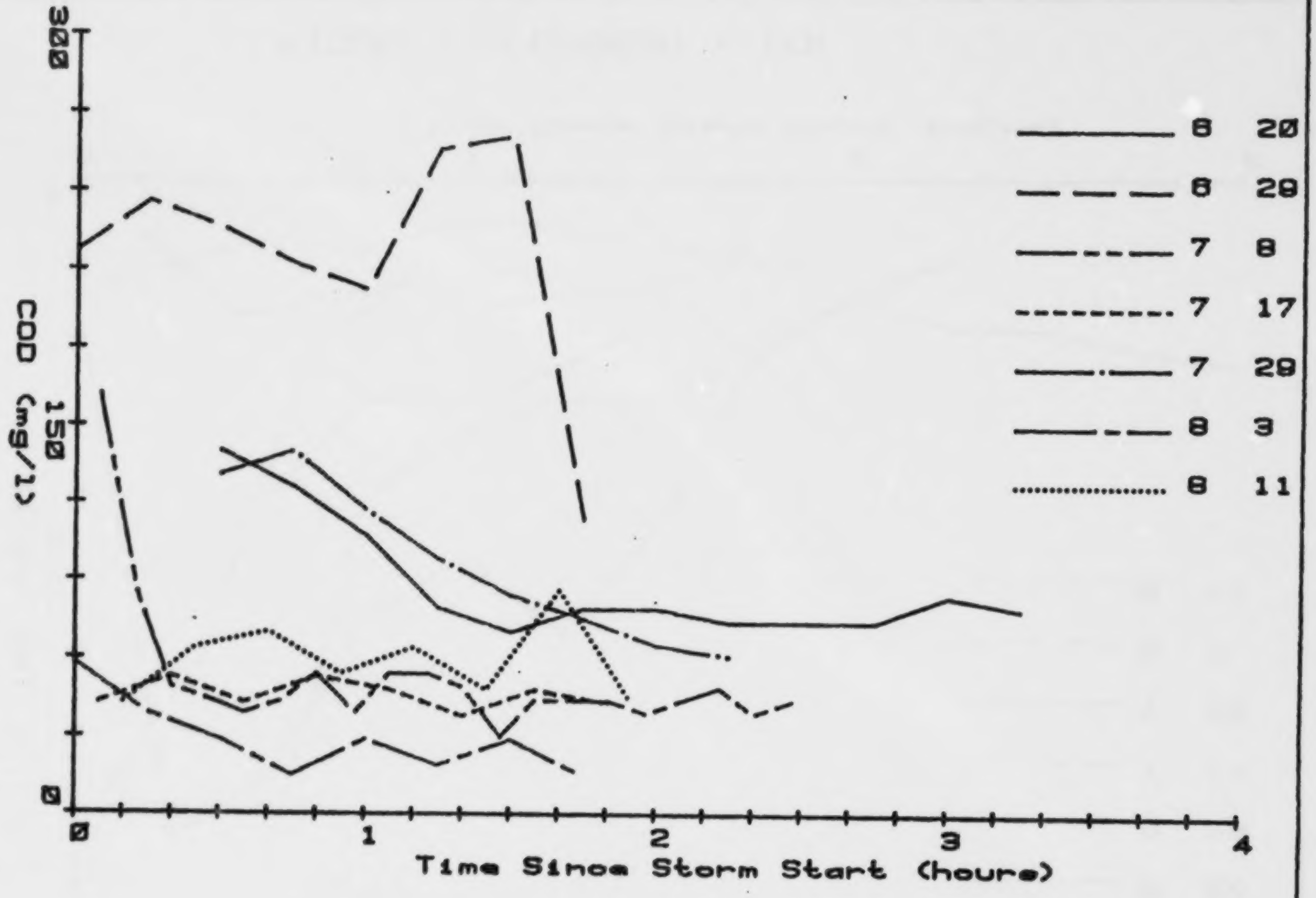


FIGURE A-121 CONVENT - COD

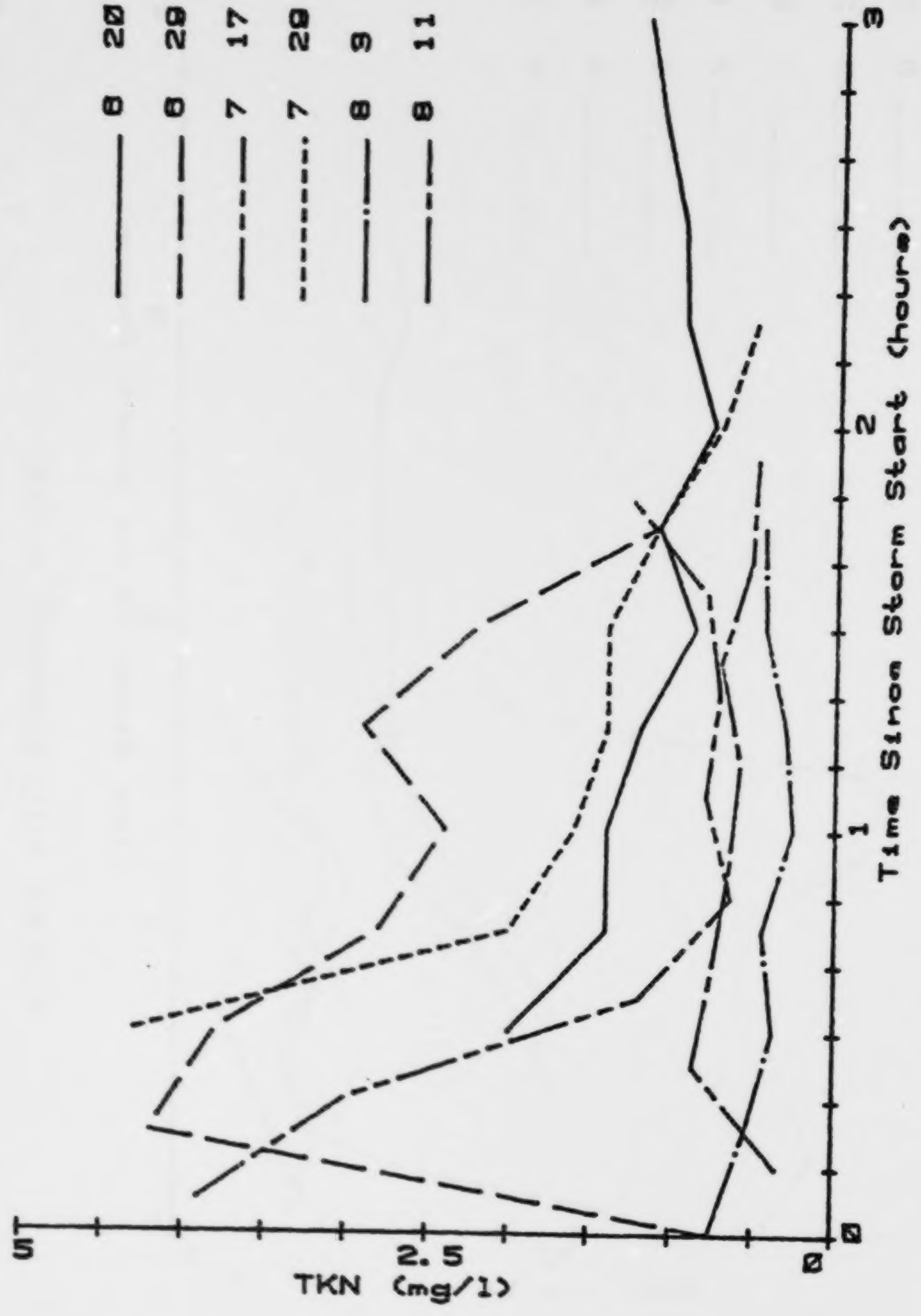


FIGURE A-122 CONVENT - TKN

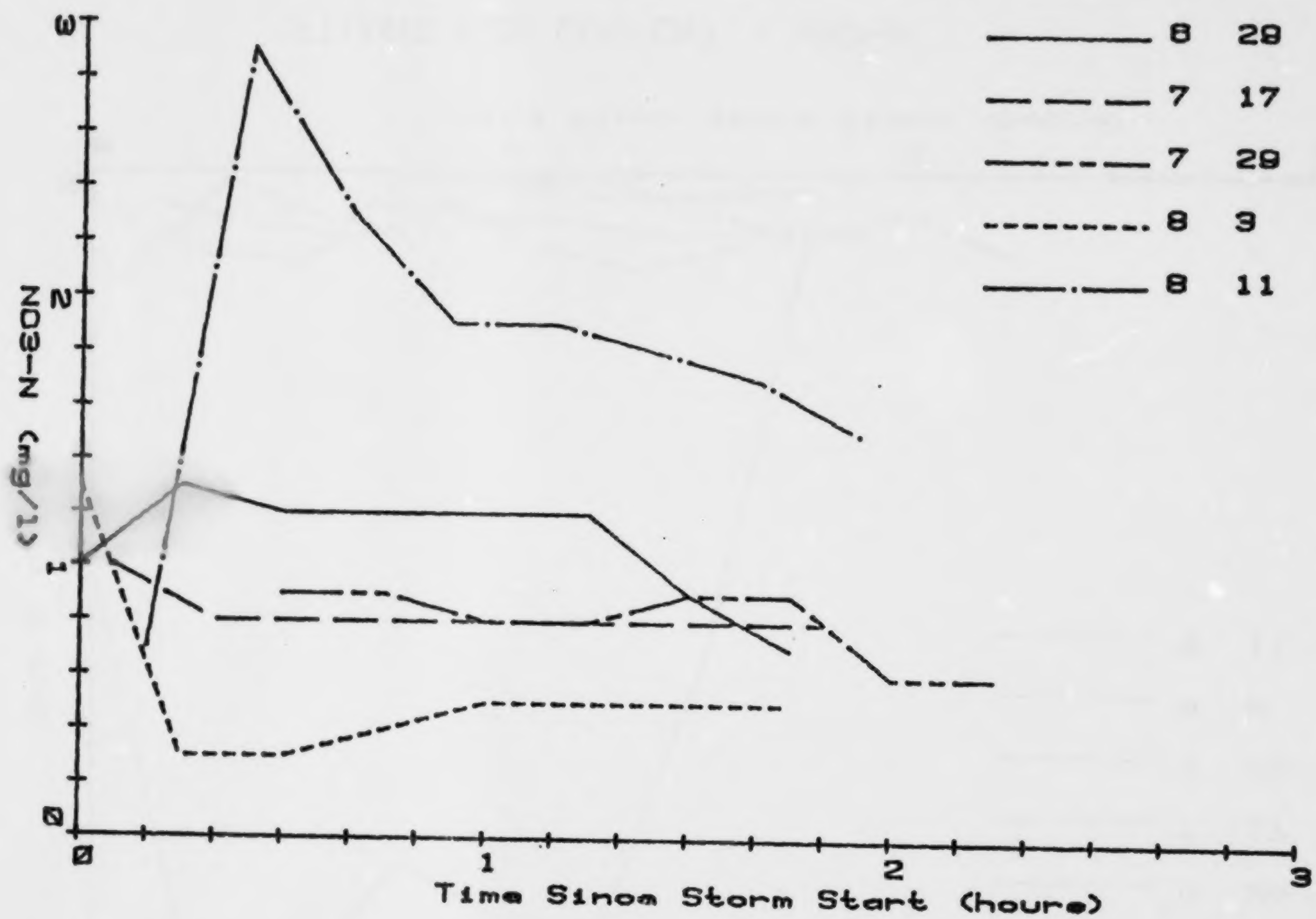


FIGURE A-123 CONVENT - NO3-N

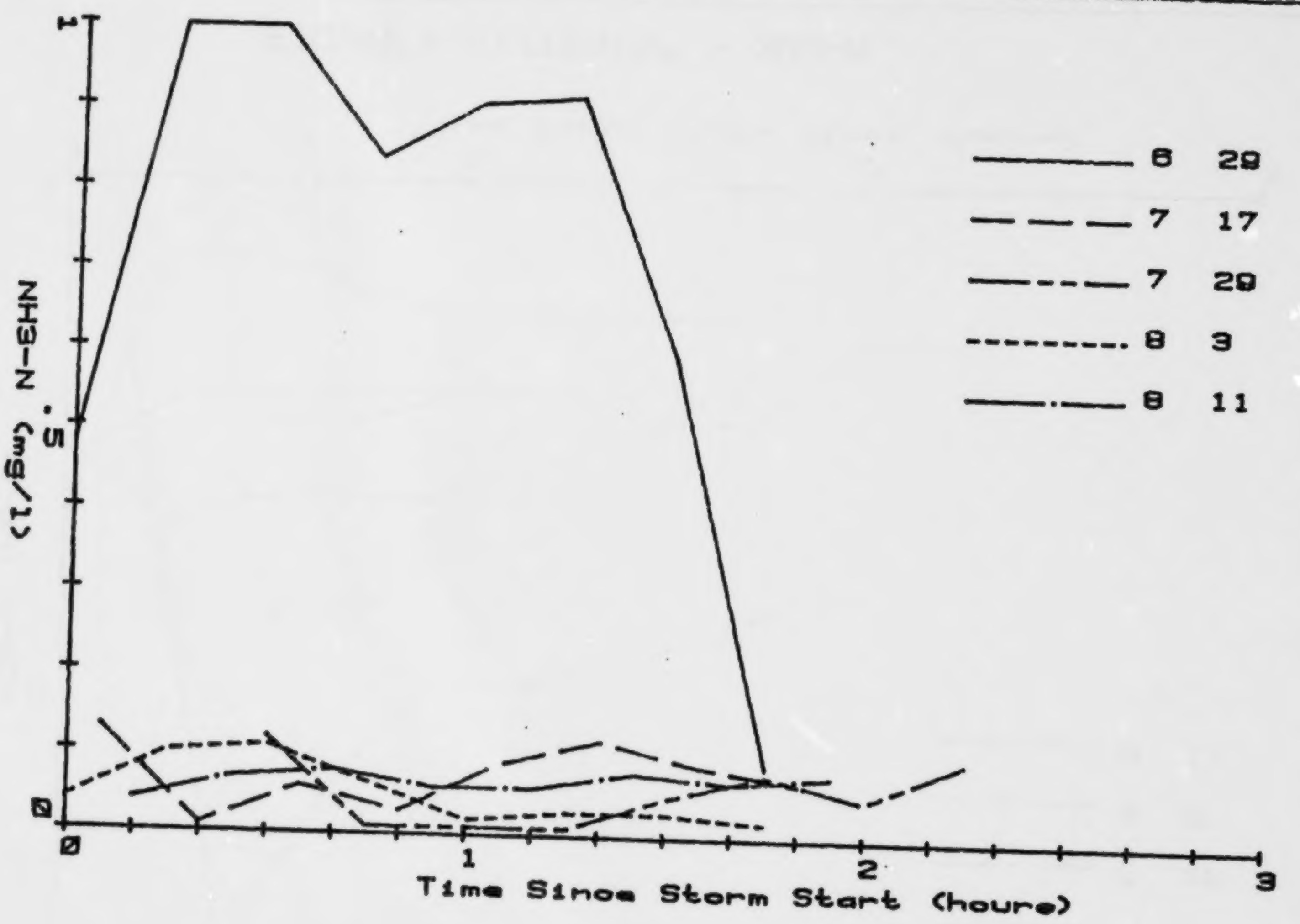


FIGURE A-124 CONVENT - NH3-N

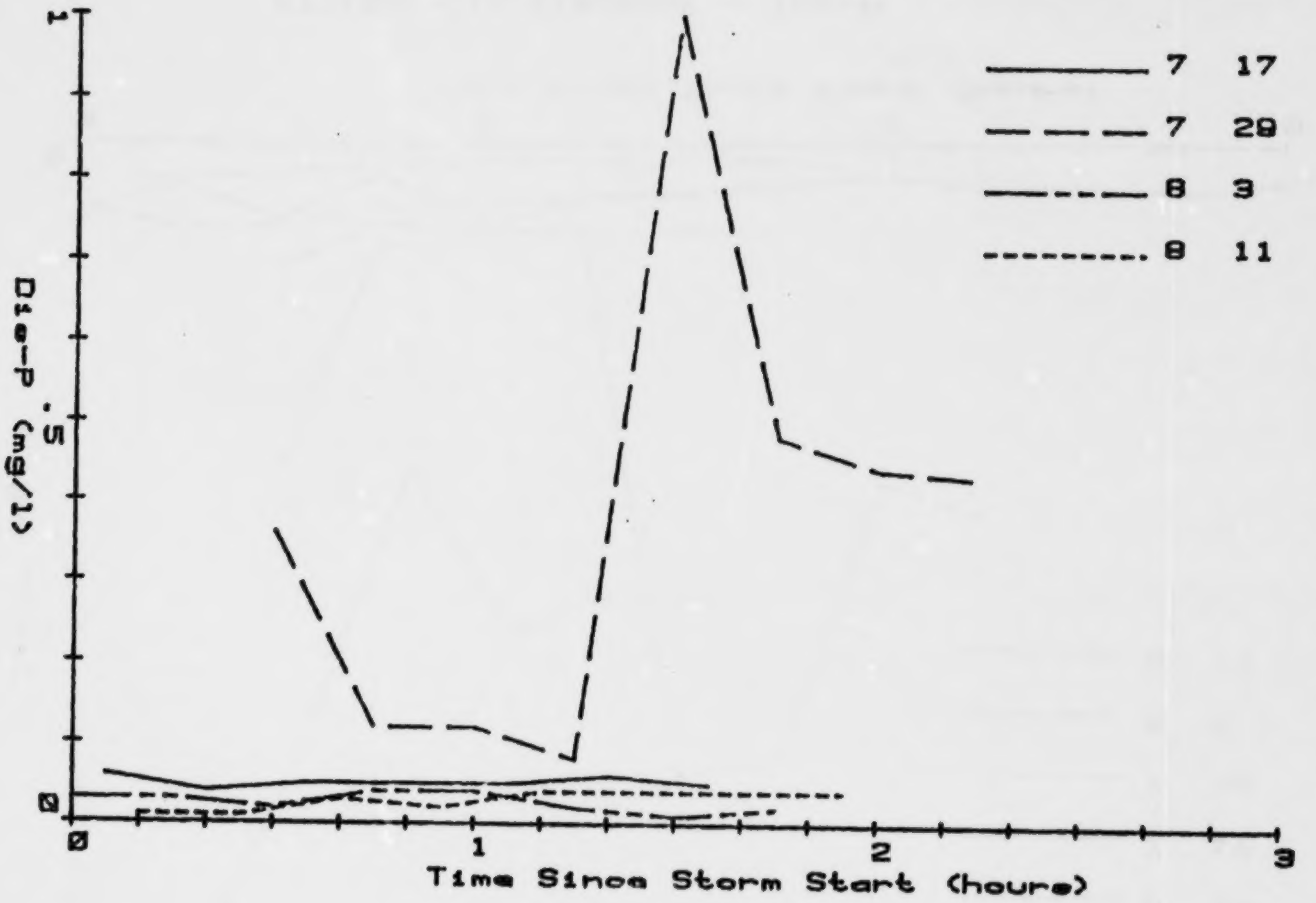


FIGURE A-125 CONVENT - Dis-P

128

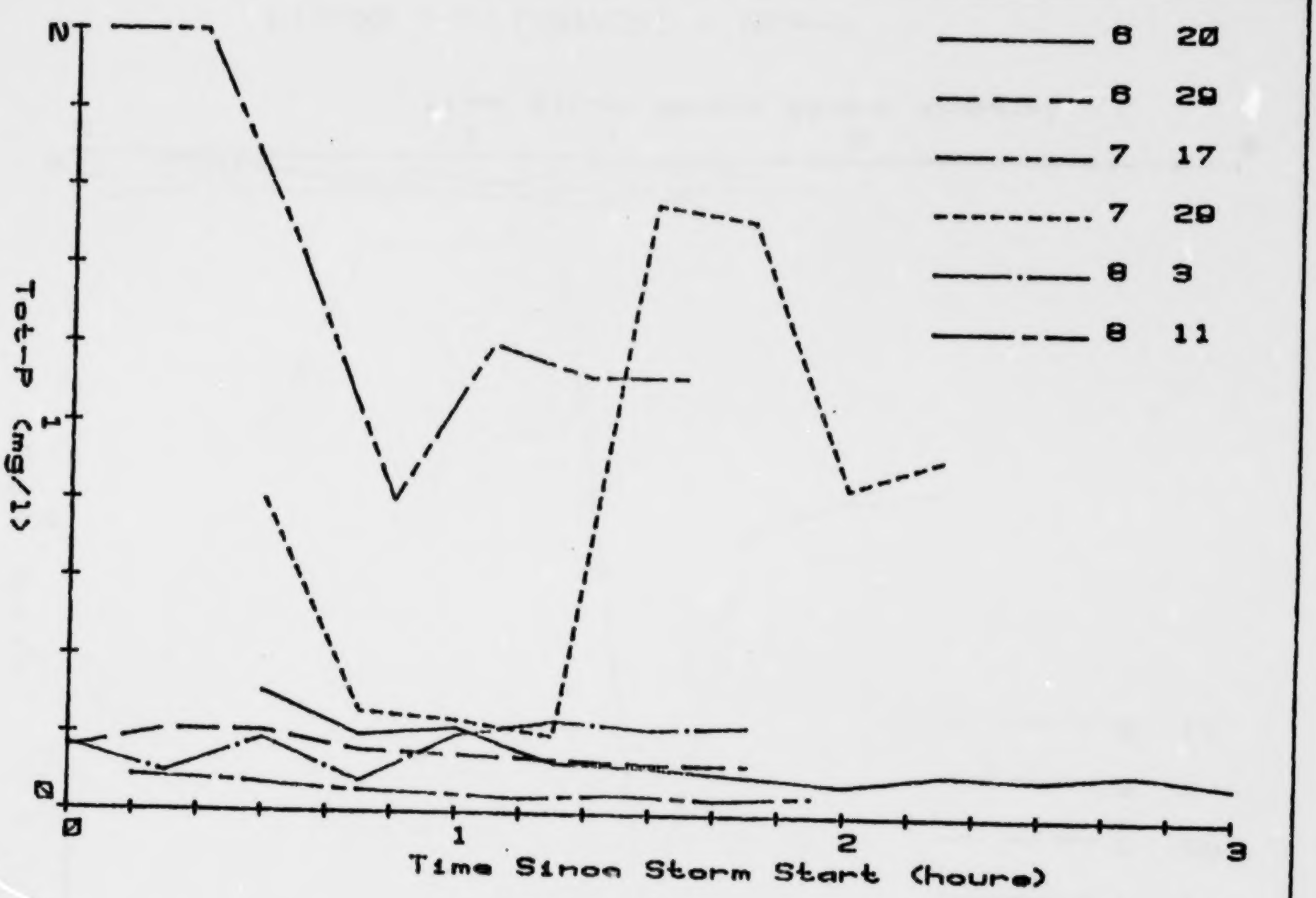


FIGURE A-126 CONVENT - Tot-P

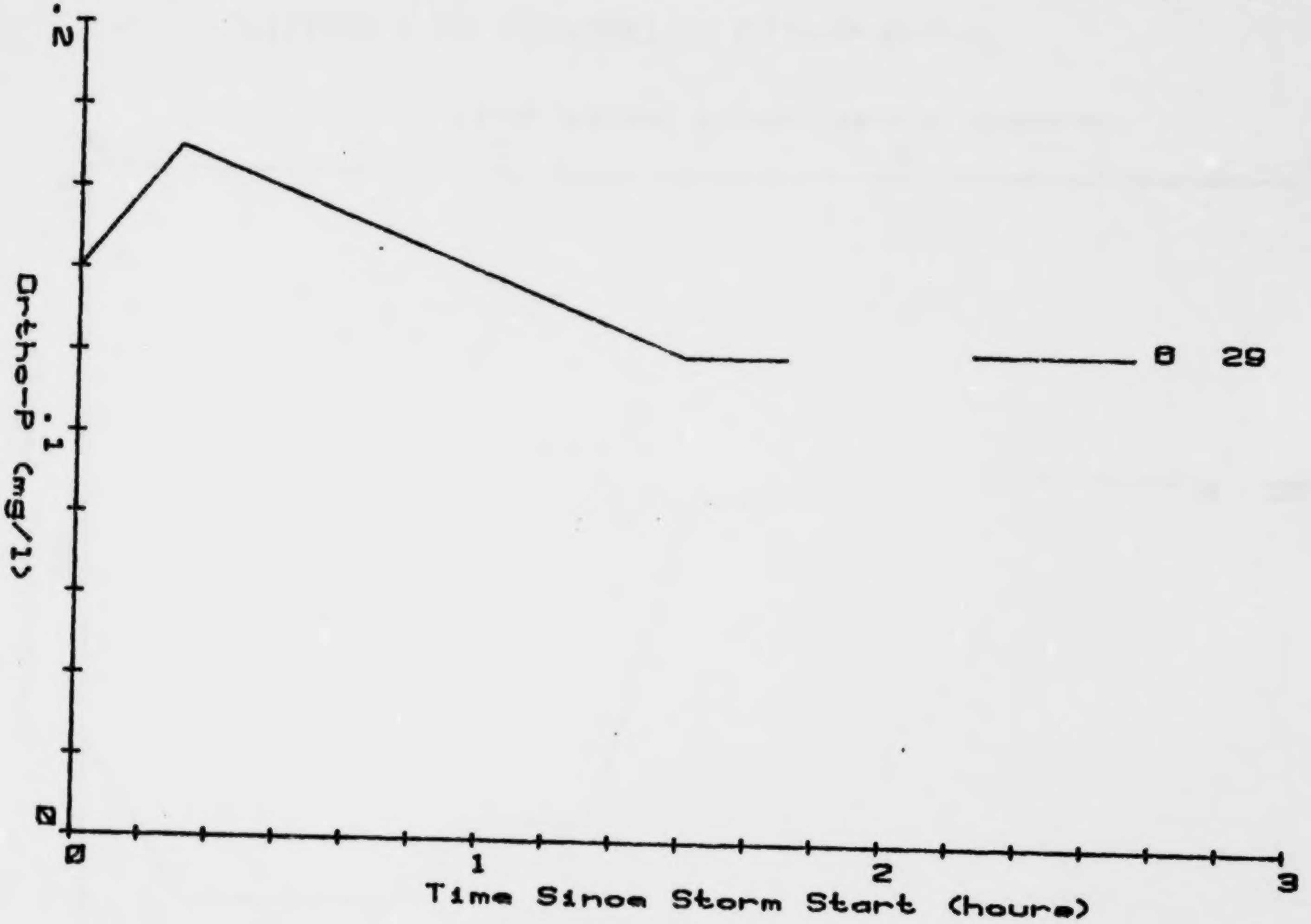


FIGURE A-127 CONVENT - Ortho-P

130

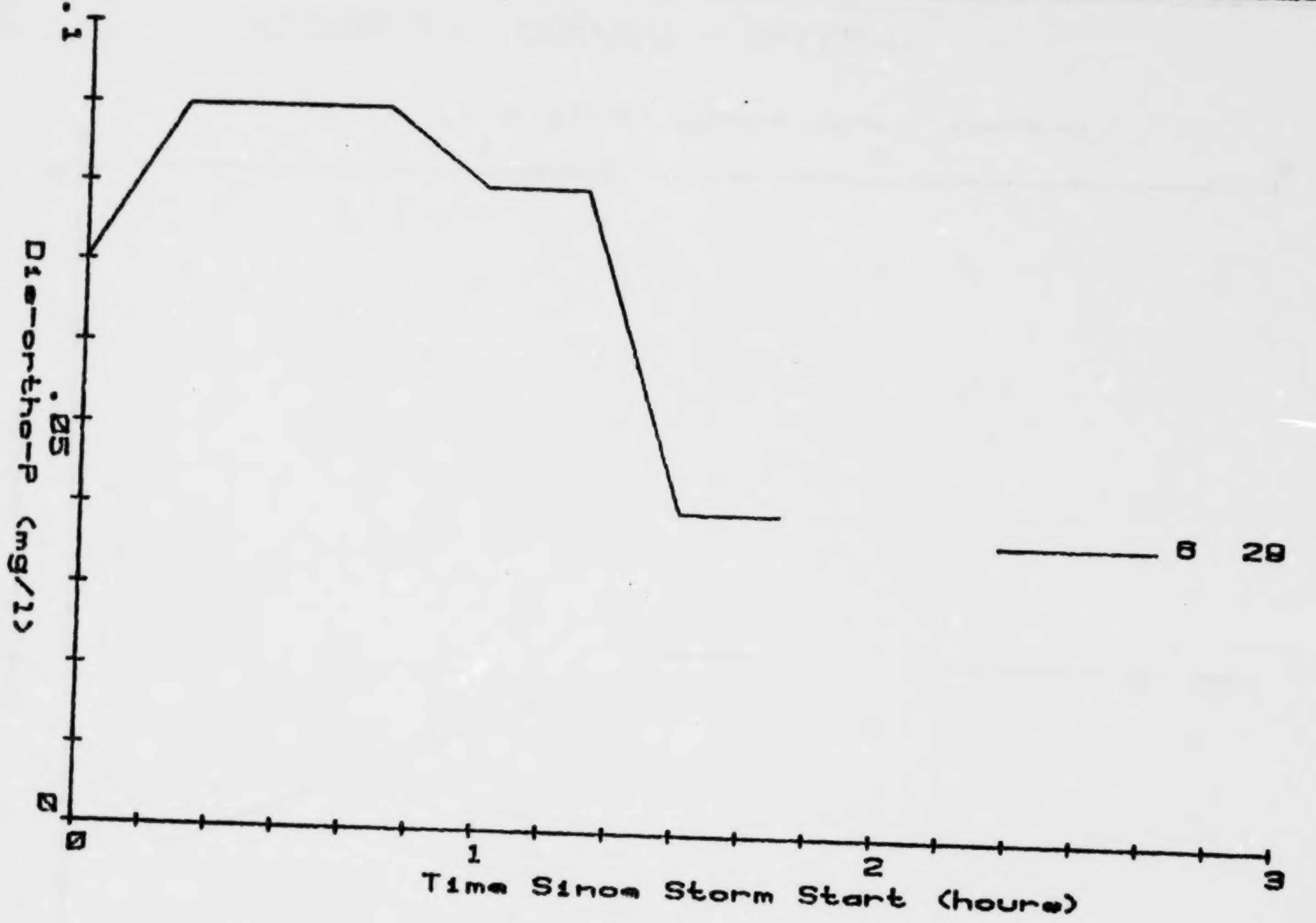


FIGURE A-128 CONVENT - Dis-ortho-P

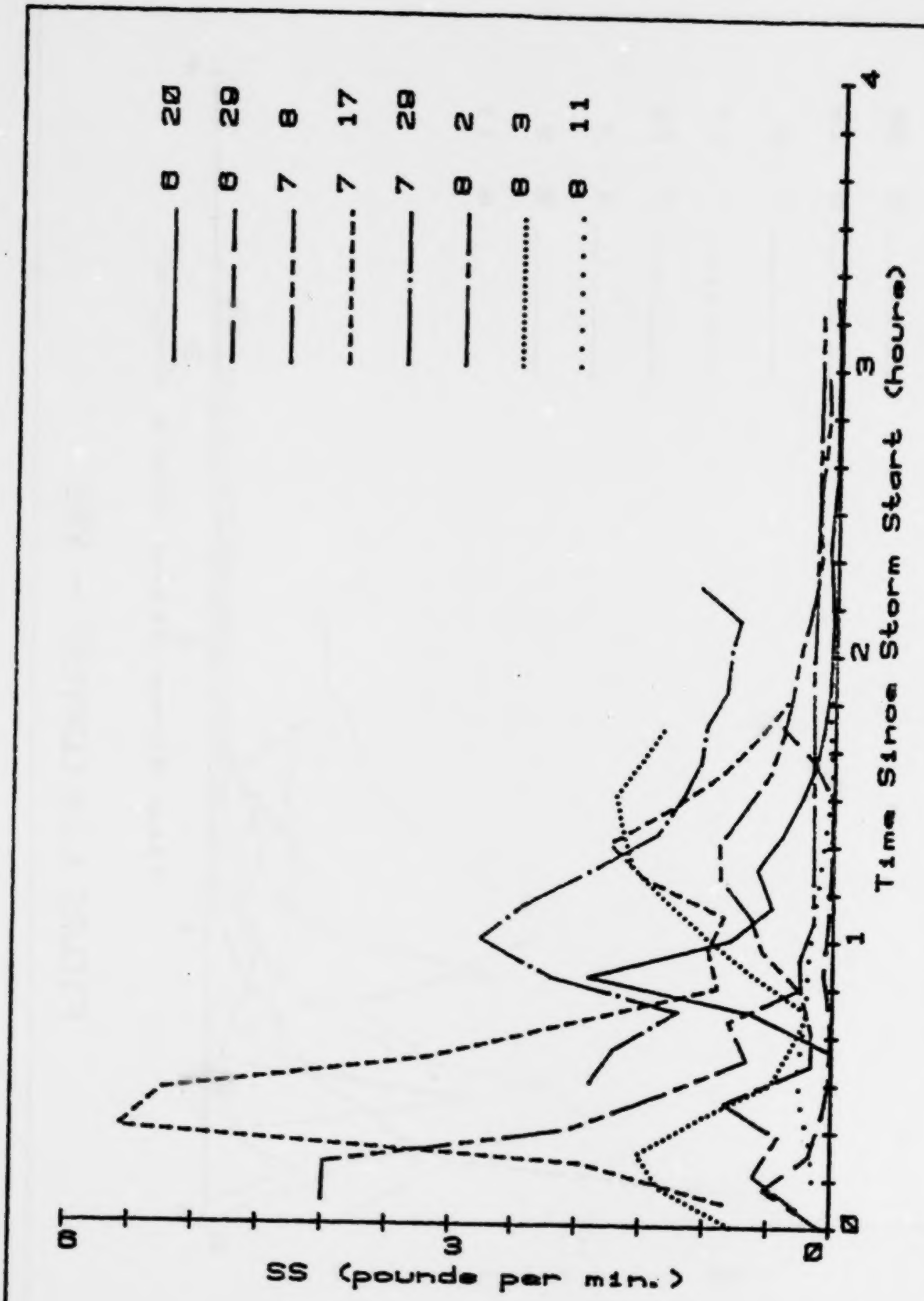


FIGURE A-129 CONVENT - SS

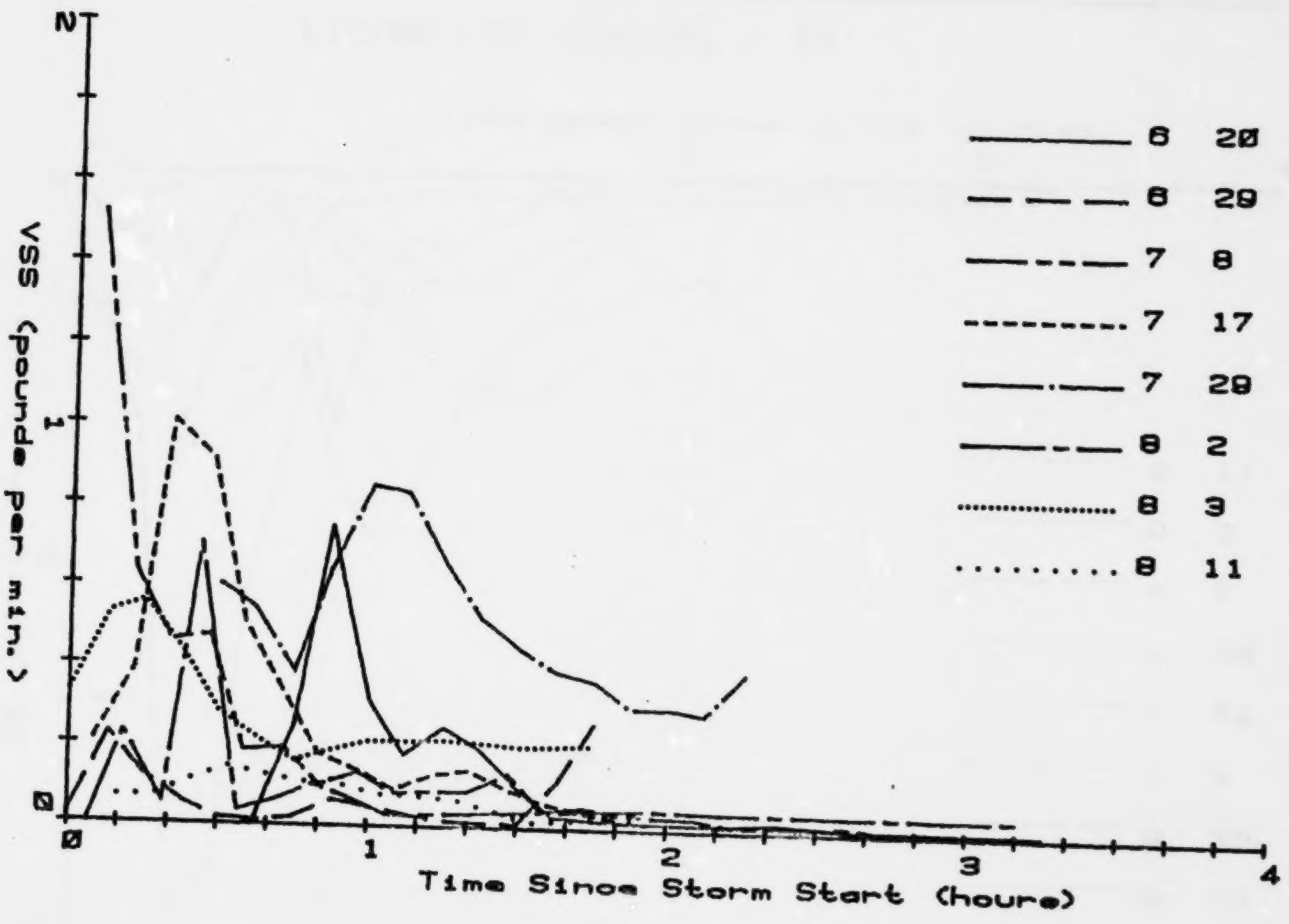


FIGURE A-130 CONVENT - VSS

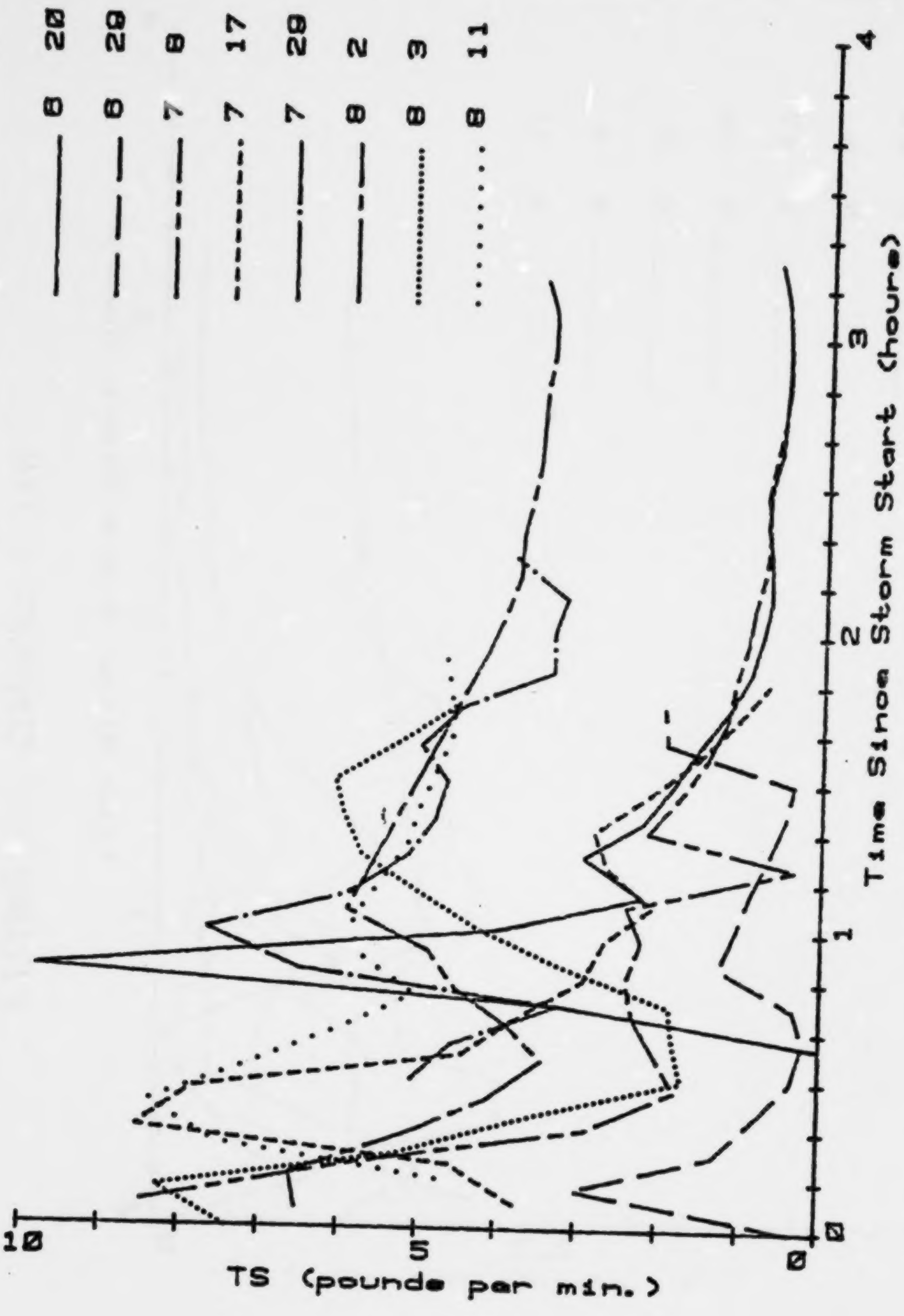


FIGURE A-131 CONVENT - TS

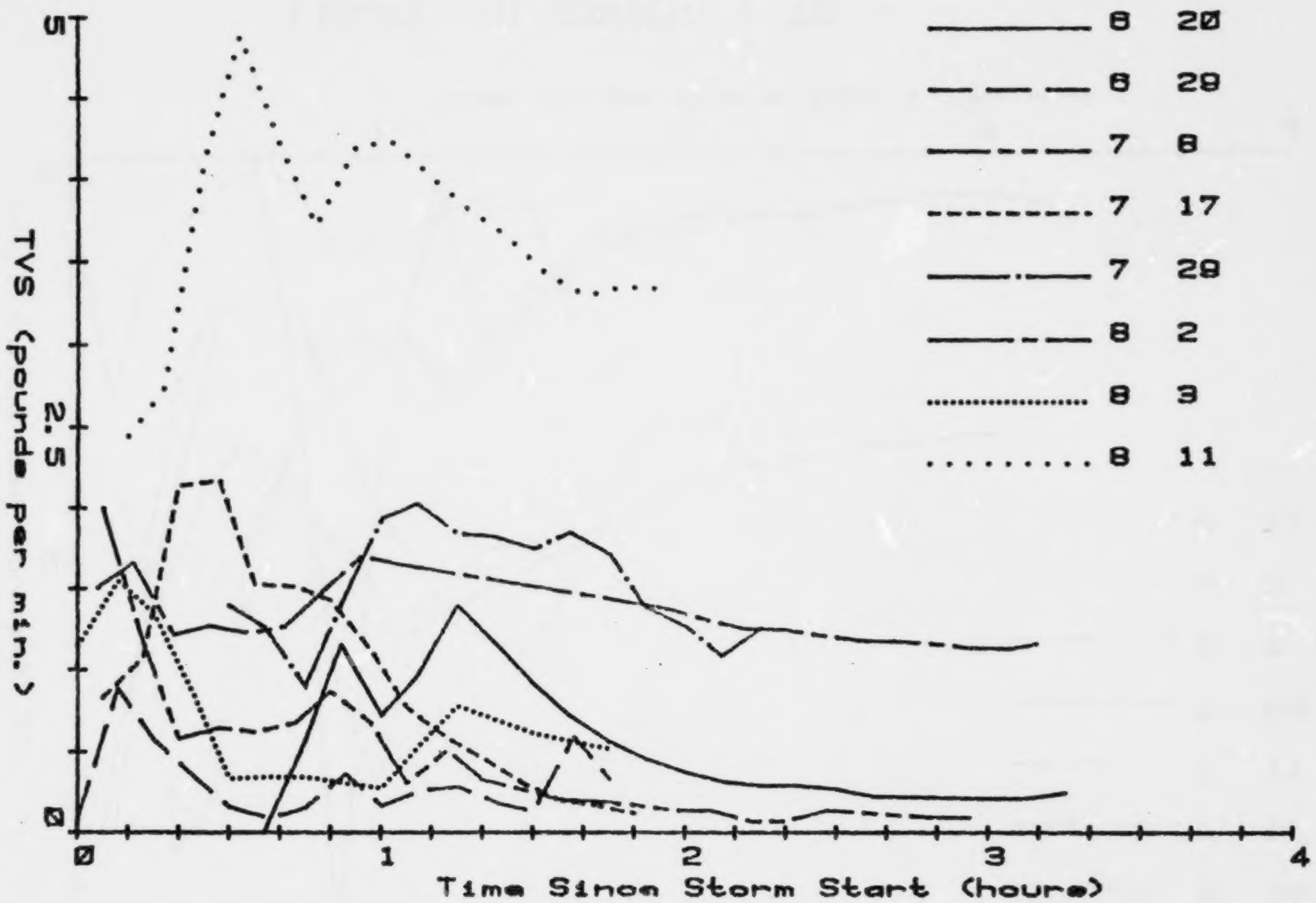


FIGURE A-132 CONVENT - TVS

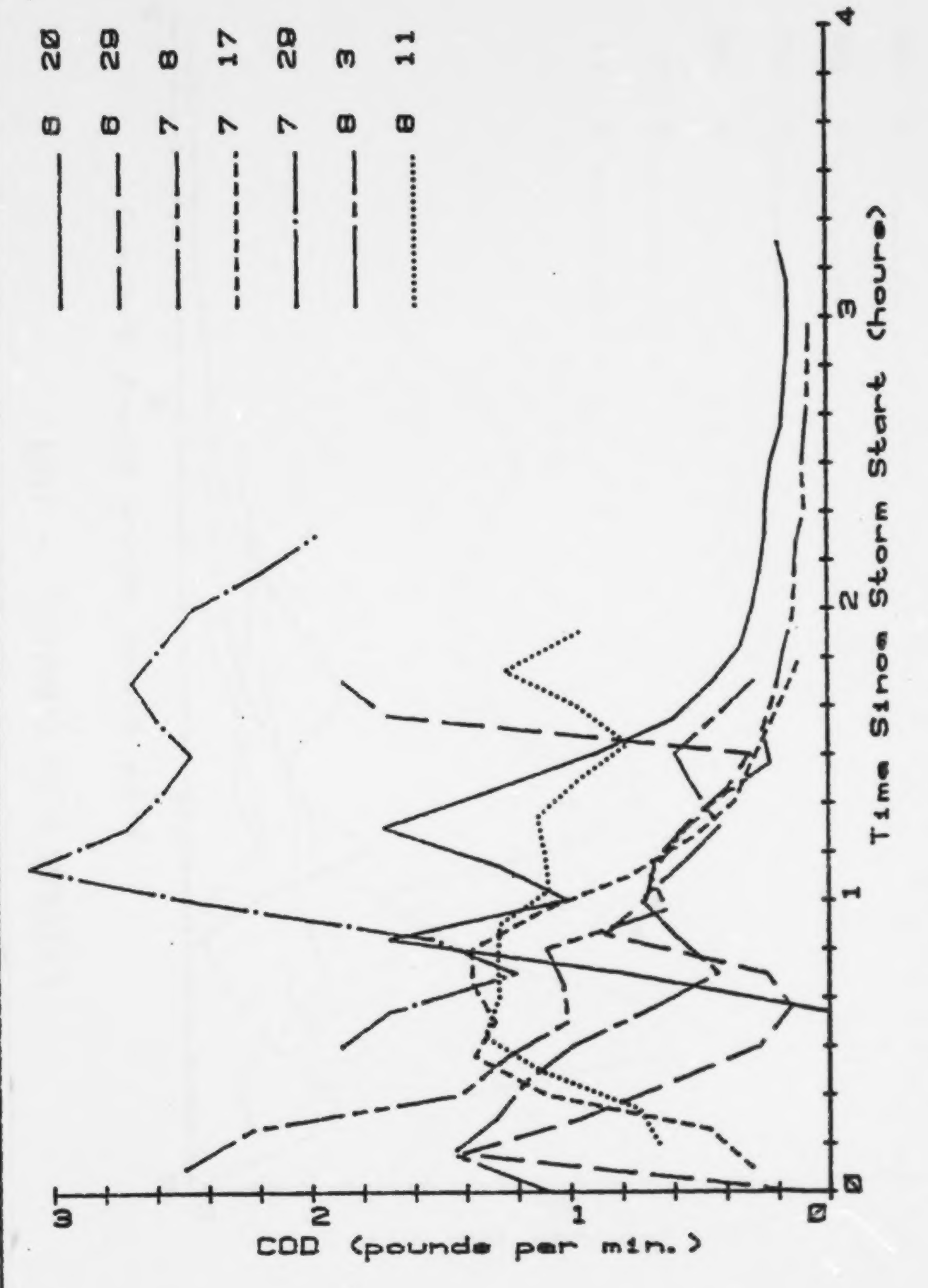


FIGURE A-133 CONVENT - COD

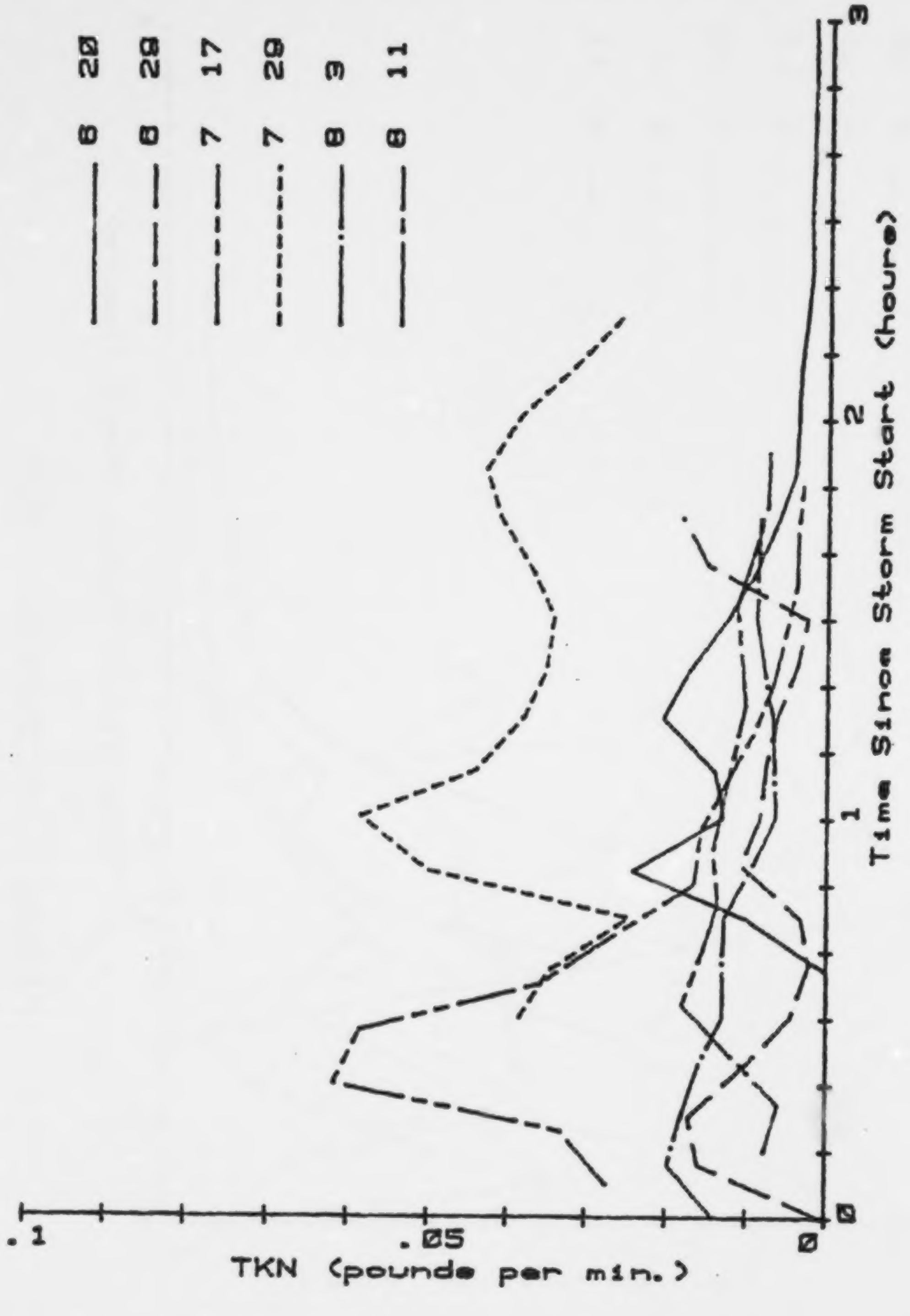


FIGURE A-134 CONVENT - TKN

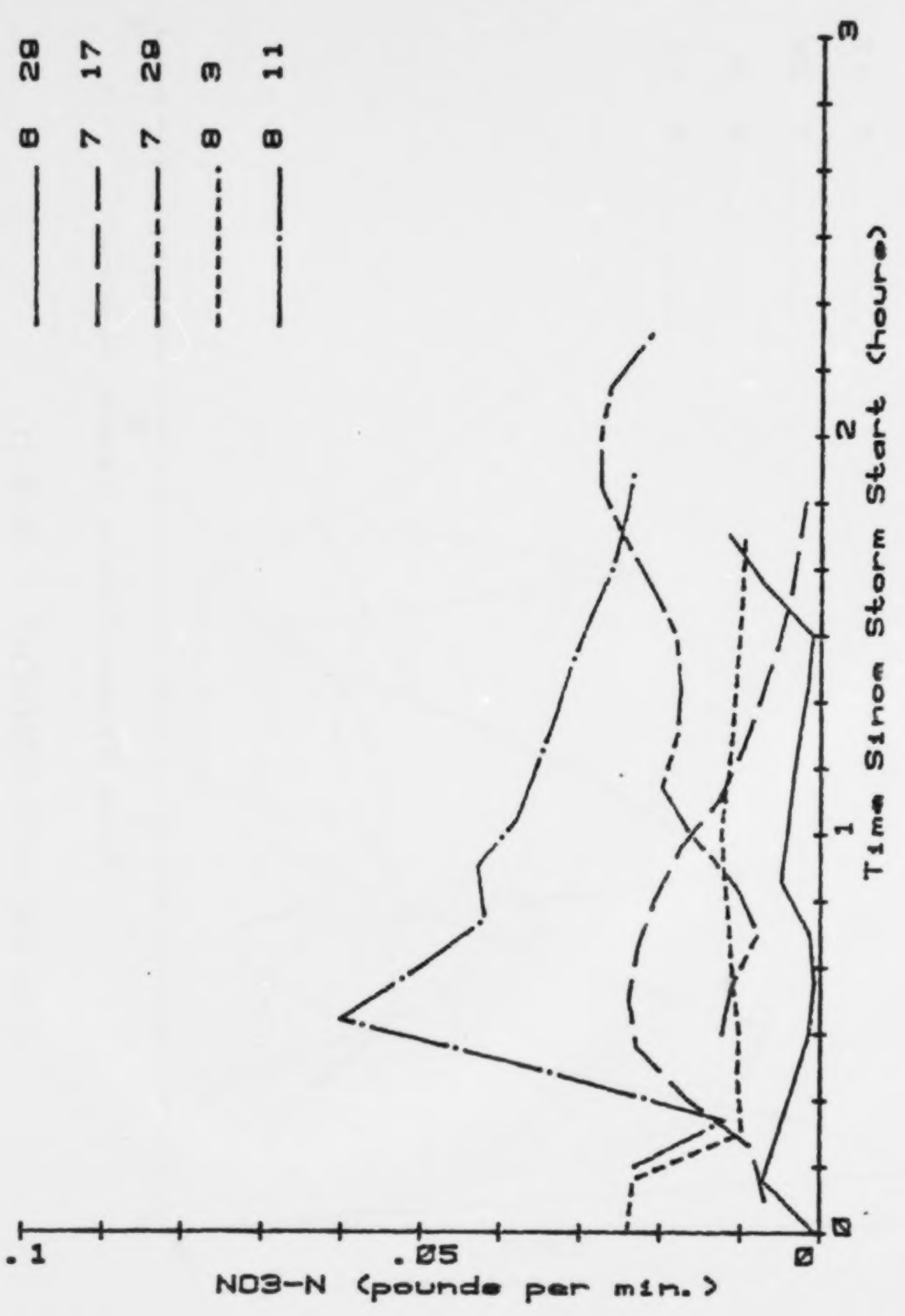


FIGURE A-135 CONVENT - NO3-N

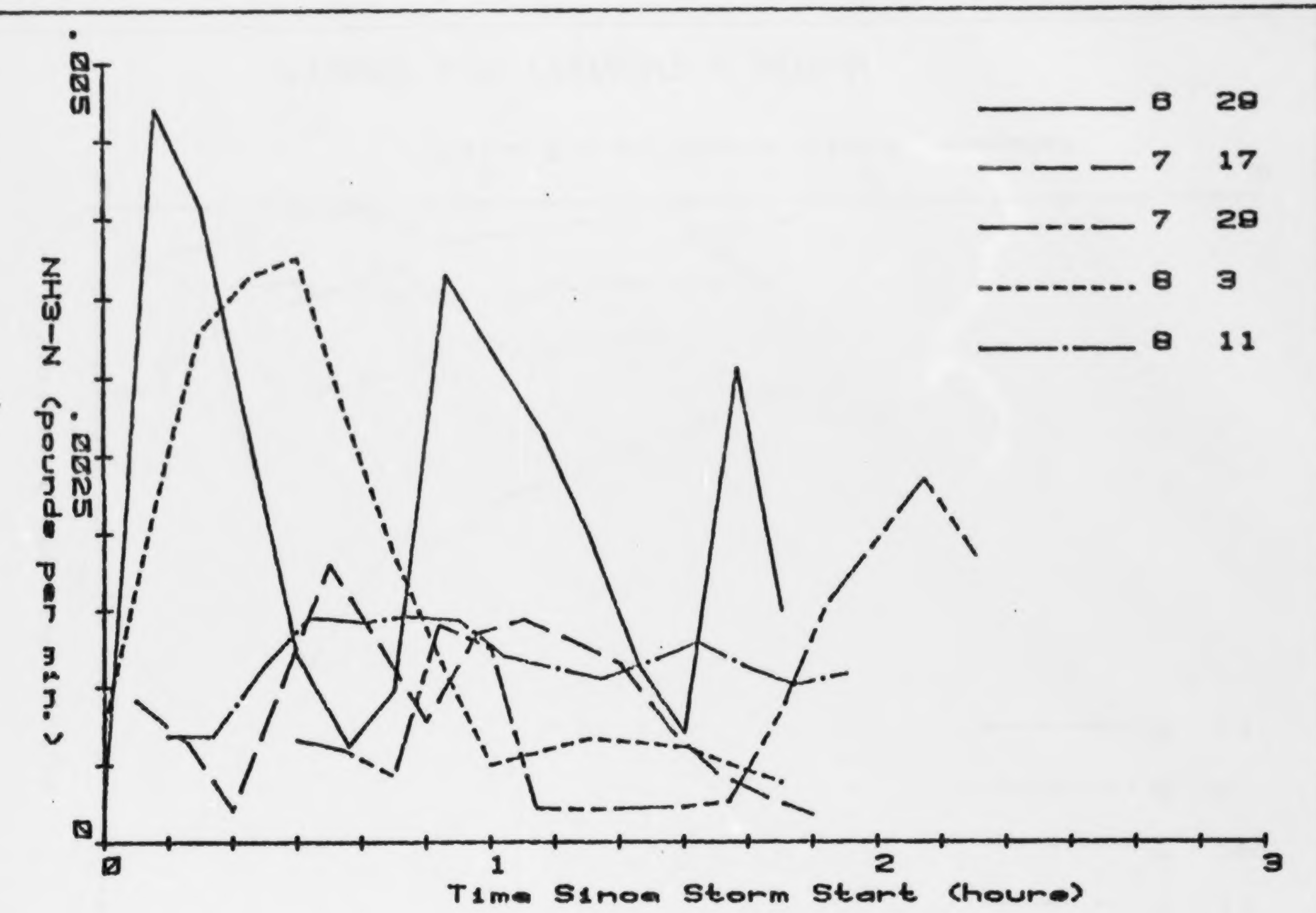


FIGURE A-136 CONVENT - NH3-N

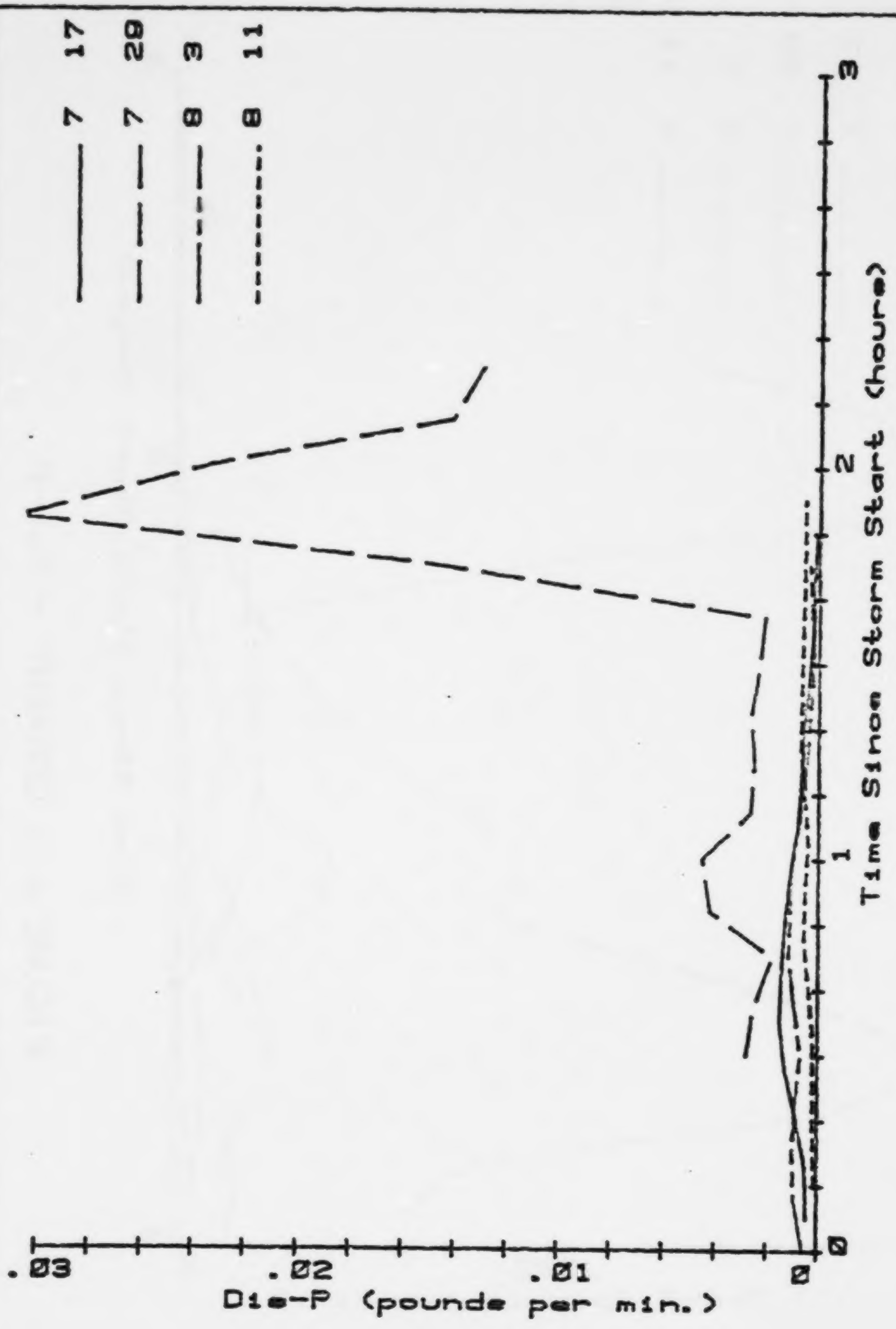


FIGURE A-137 CONVENT - Dis-P

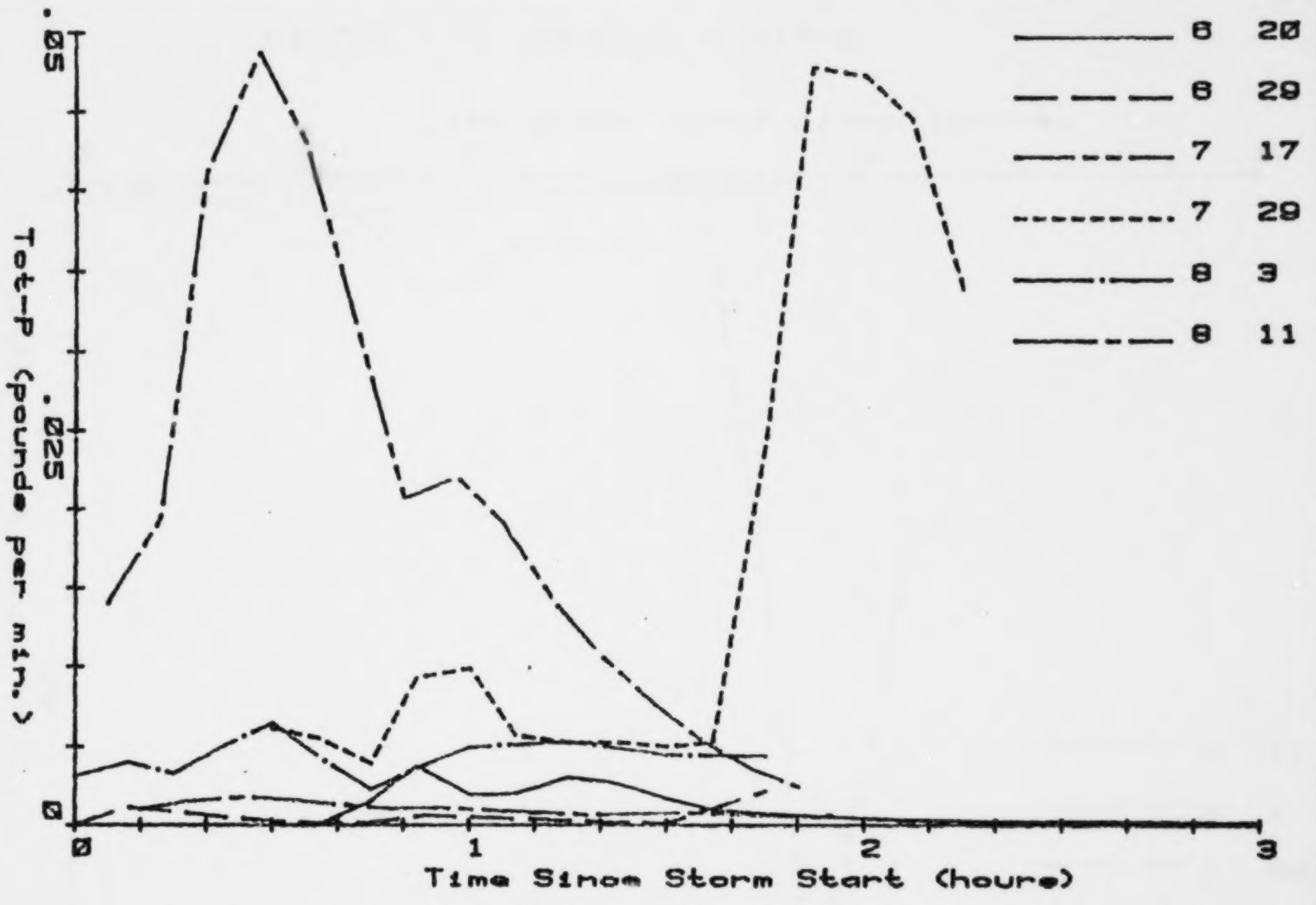


FIGURE A-138 CONVENT - Tot-P

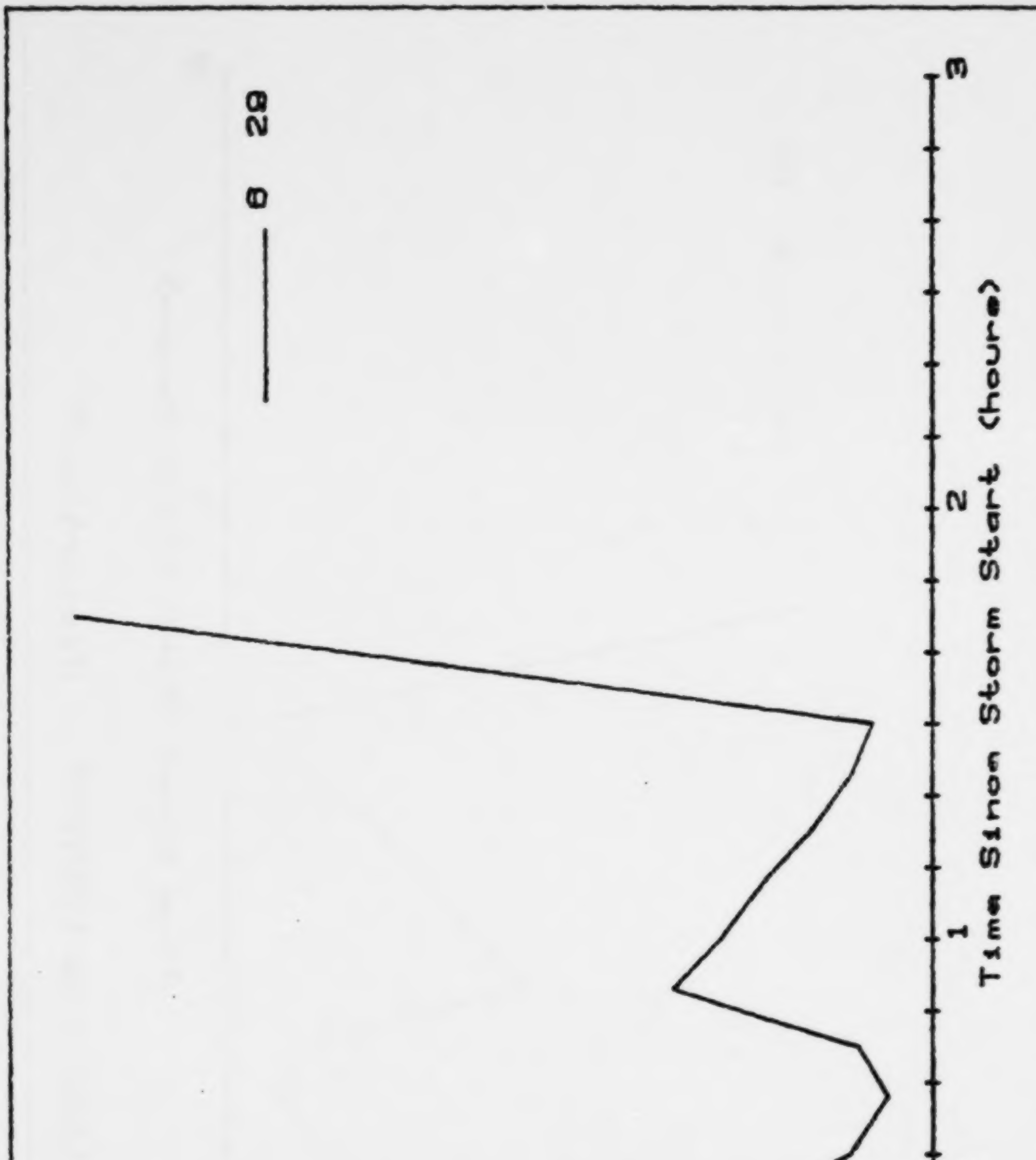


FIGURE A-139 CONVENT - Ortho-P

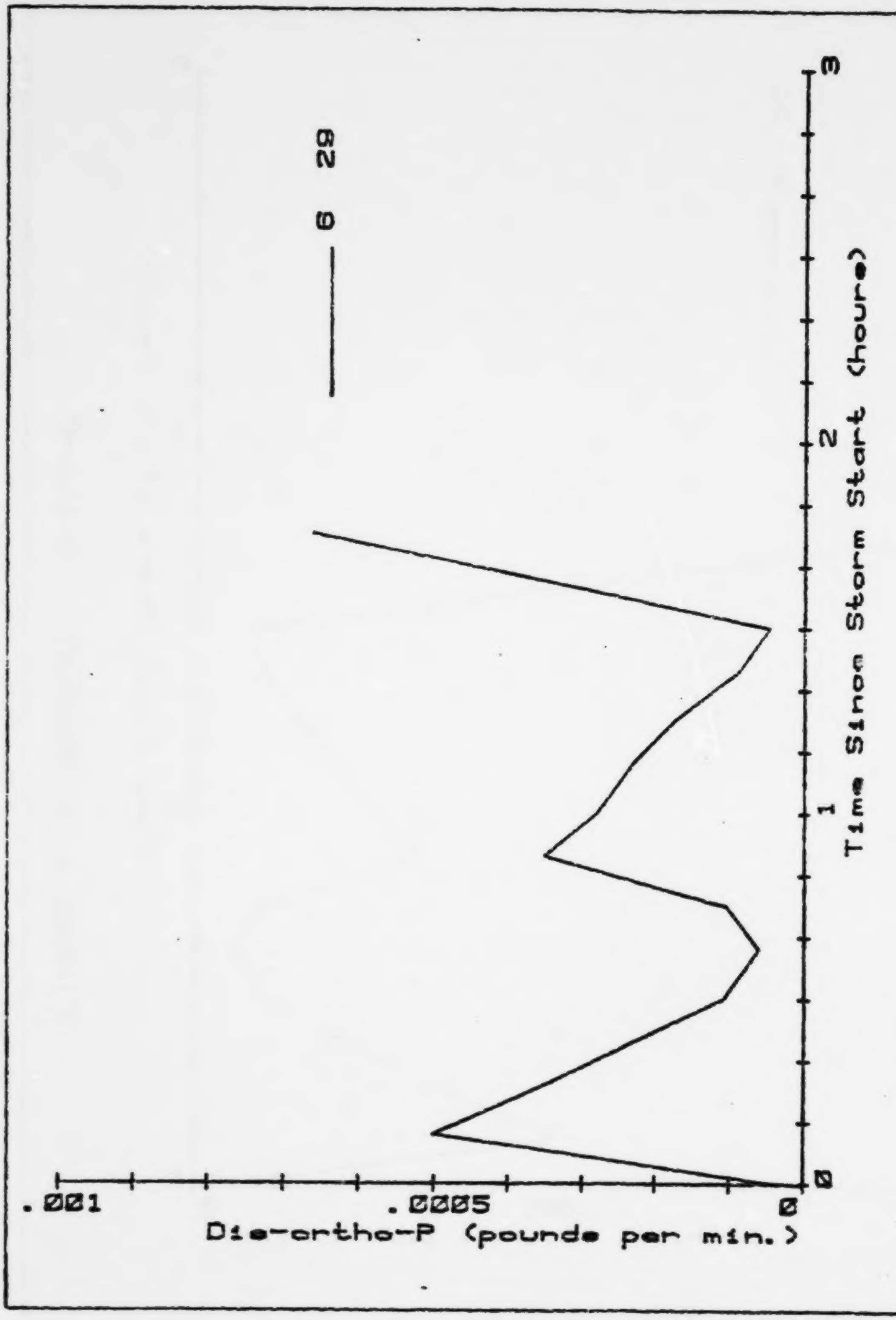


FIGURE A-140 CONVENT - Dis-ortho-P

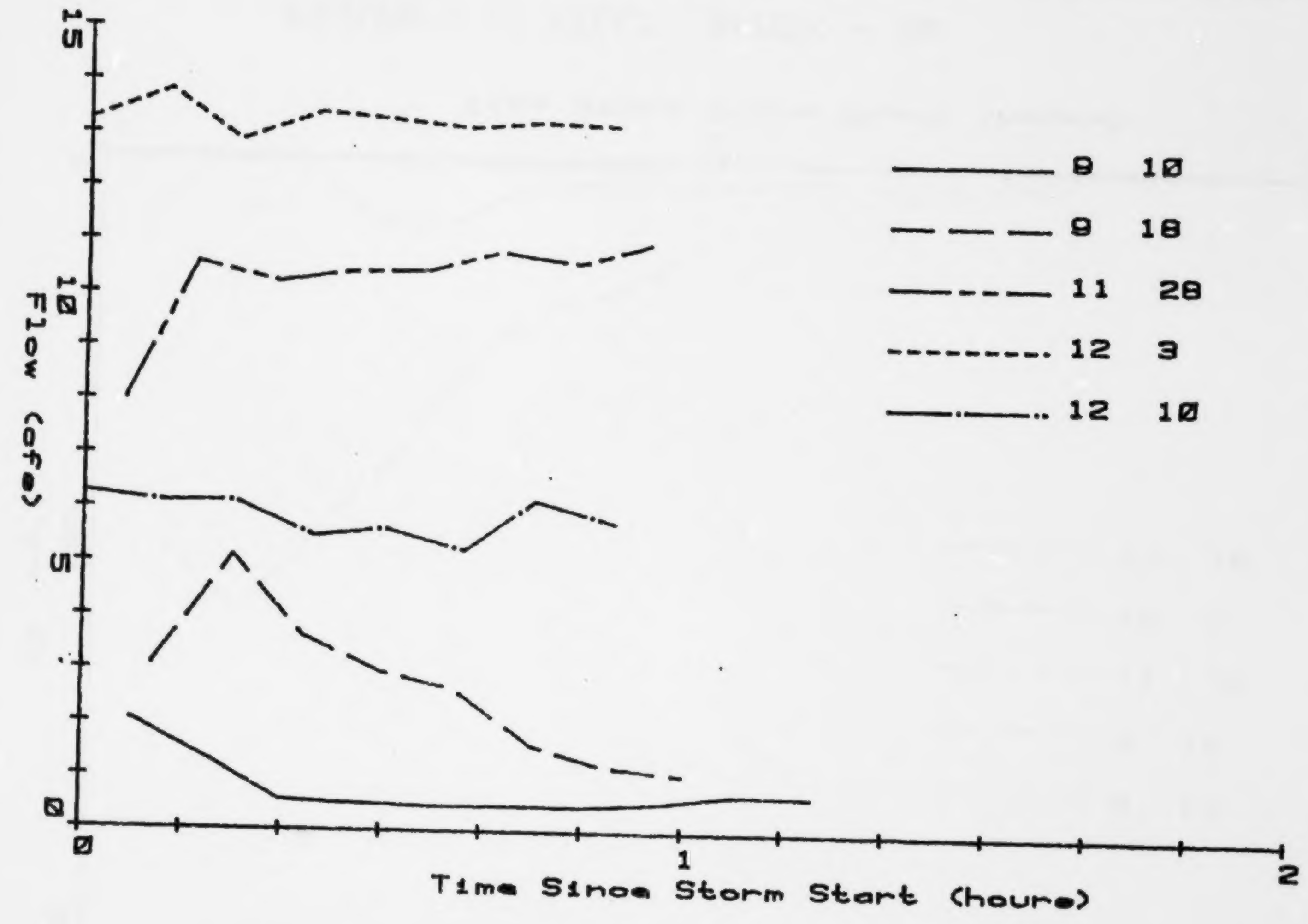


FIGURE A-141 TILLY BROOK - FLOW

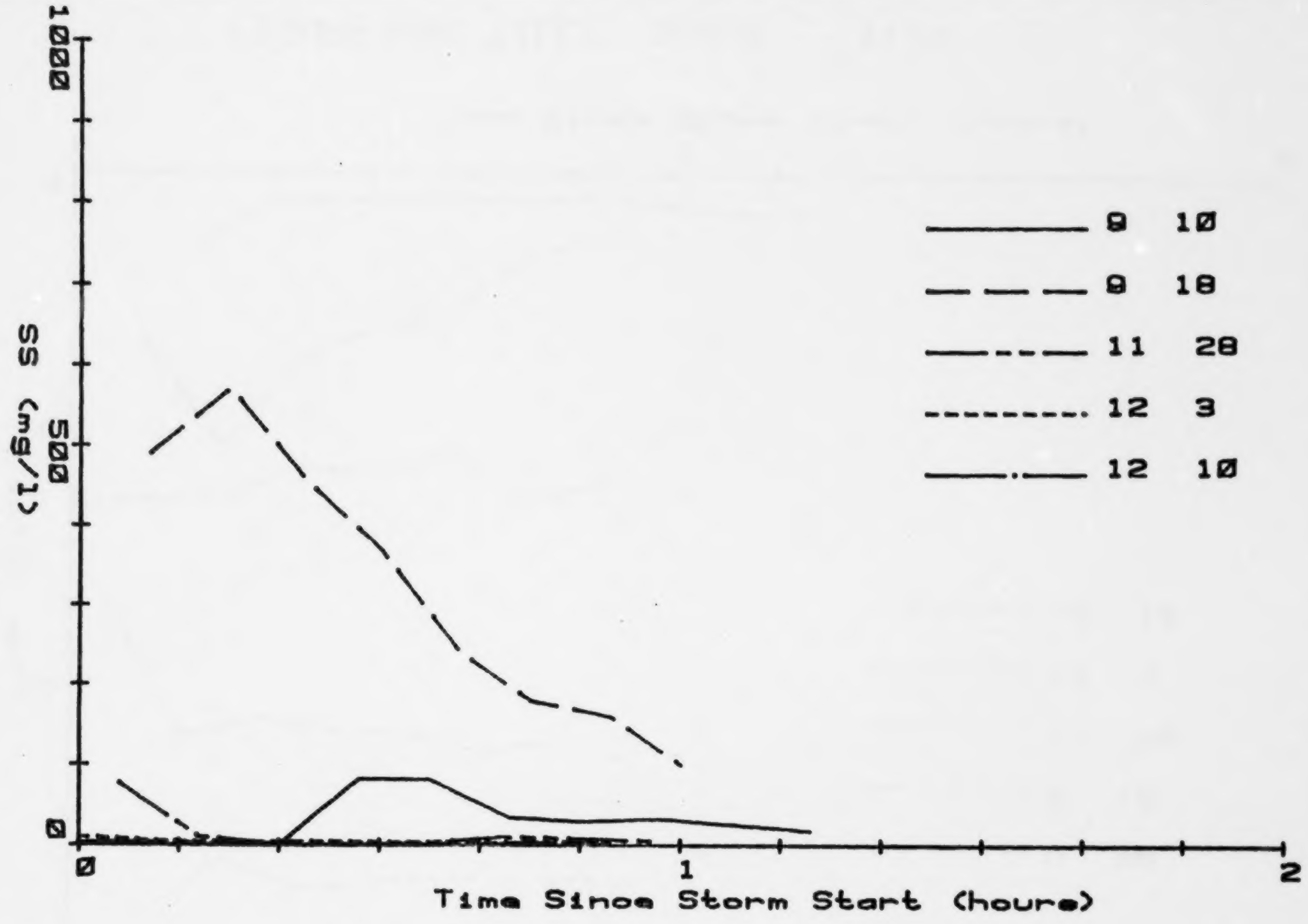


FIGURE A-142 TILLY BROOK - SS

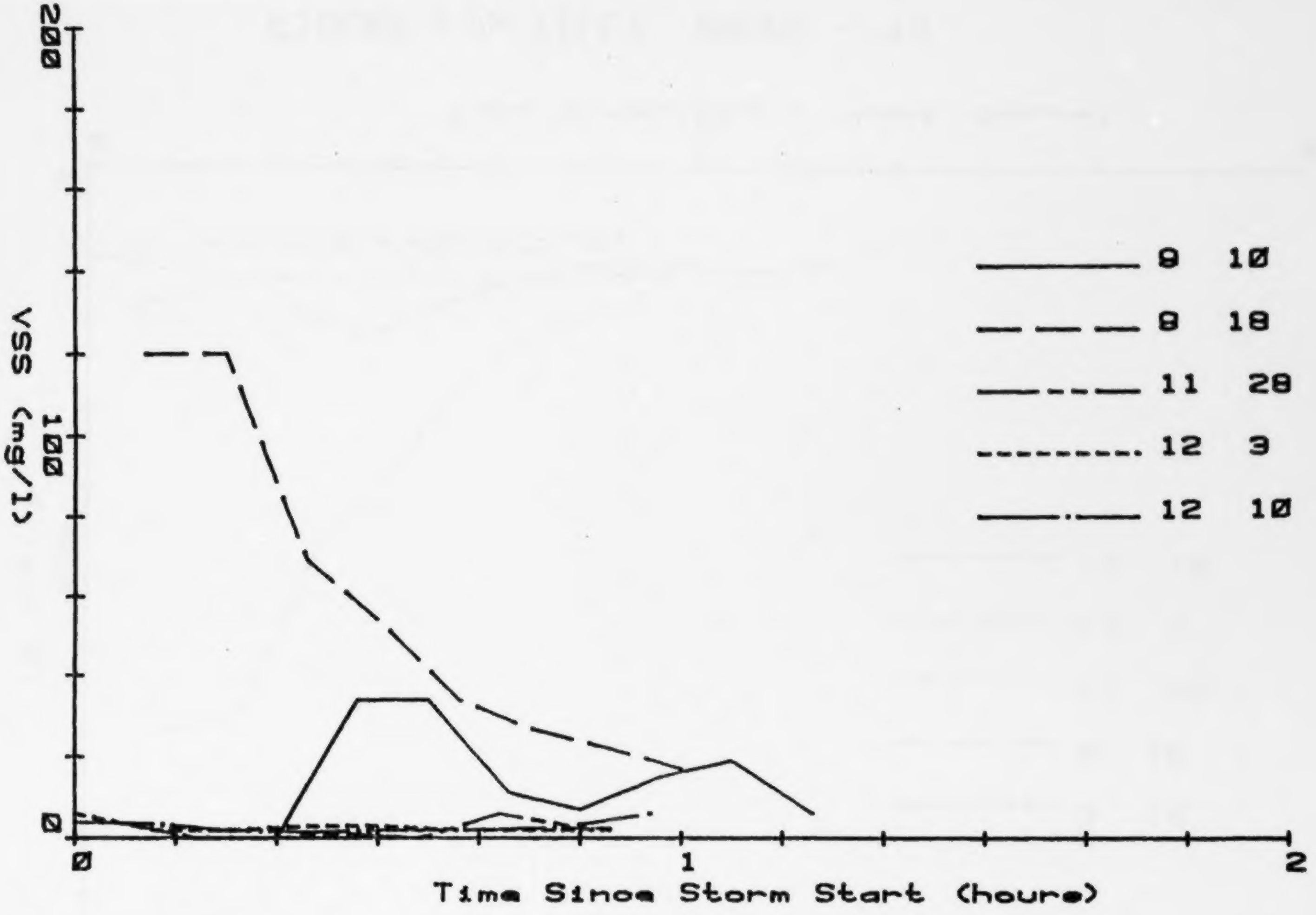


FIGURE A-143 TILLY BROOK - VSS

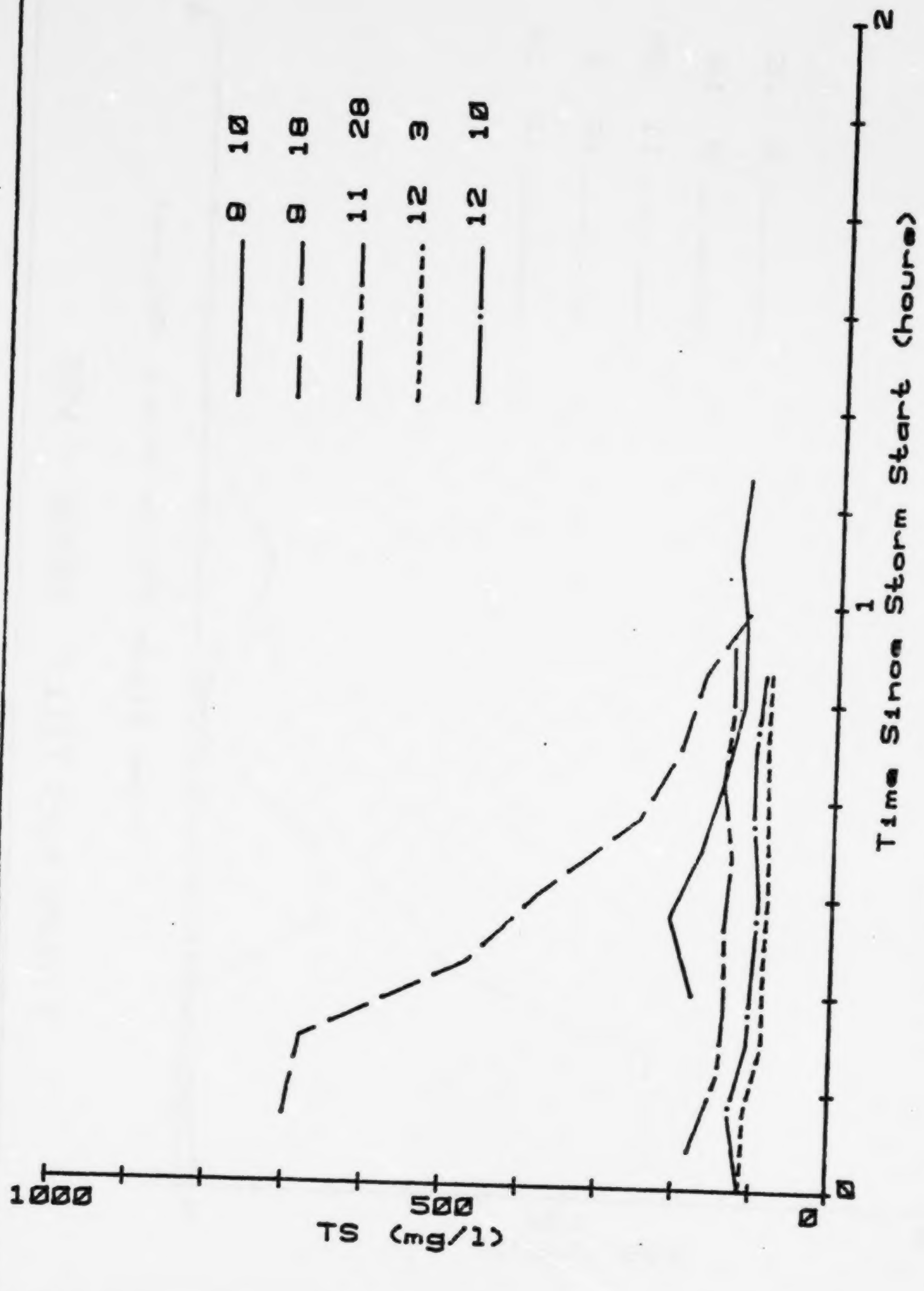


FIGURE A-144 TILLY BROOK - TS

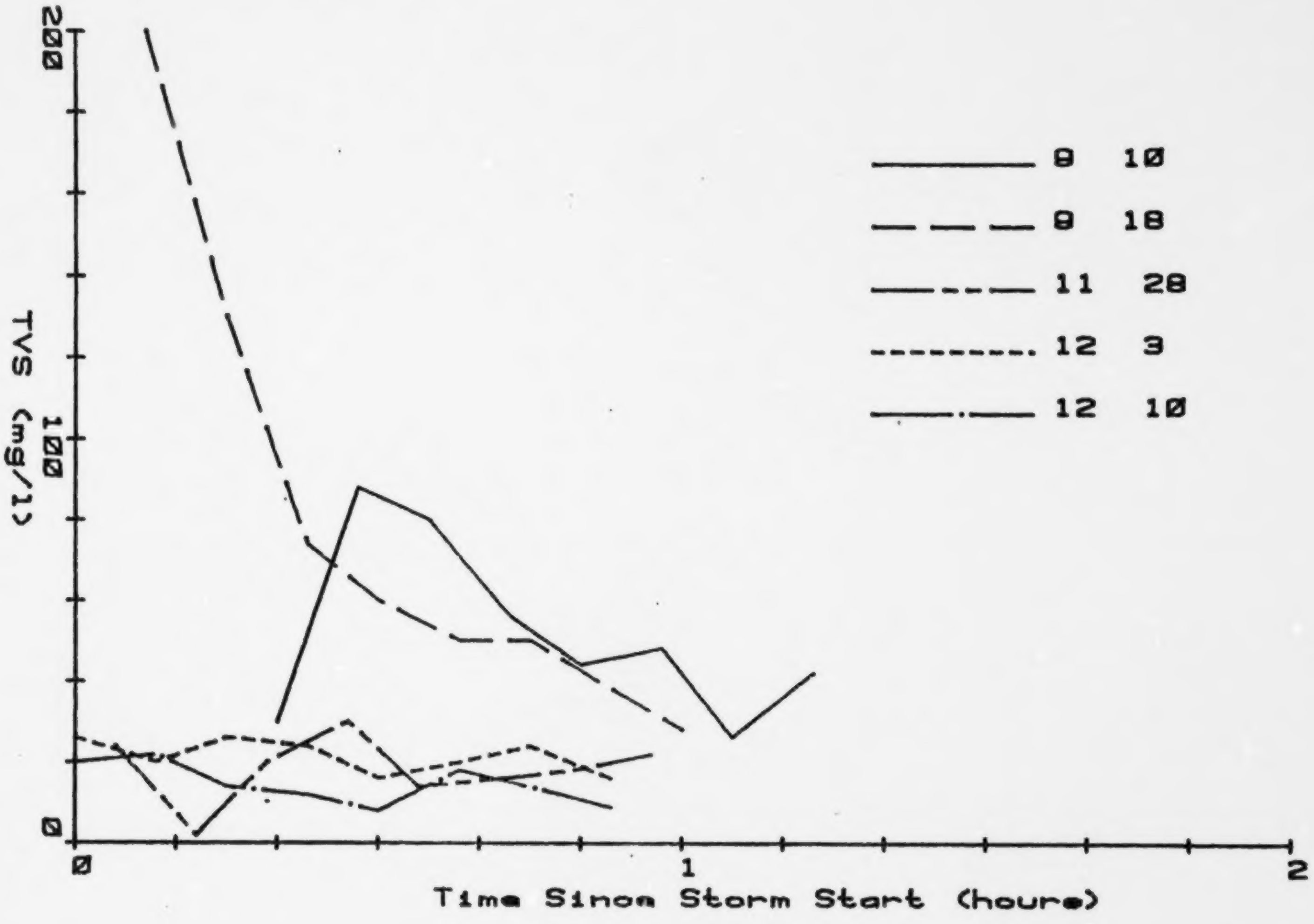


FIGURE A-145 TILLY BROOK - TVS

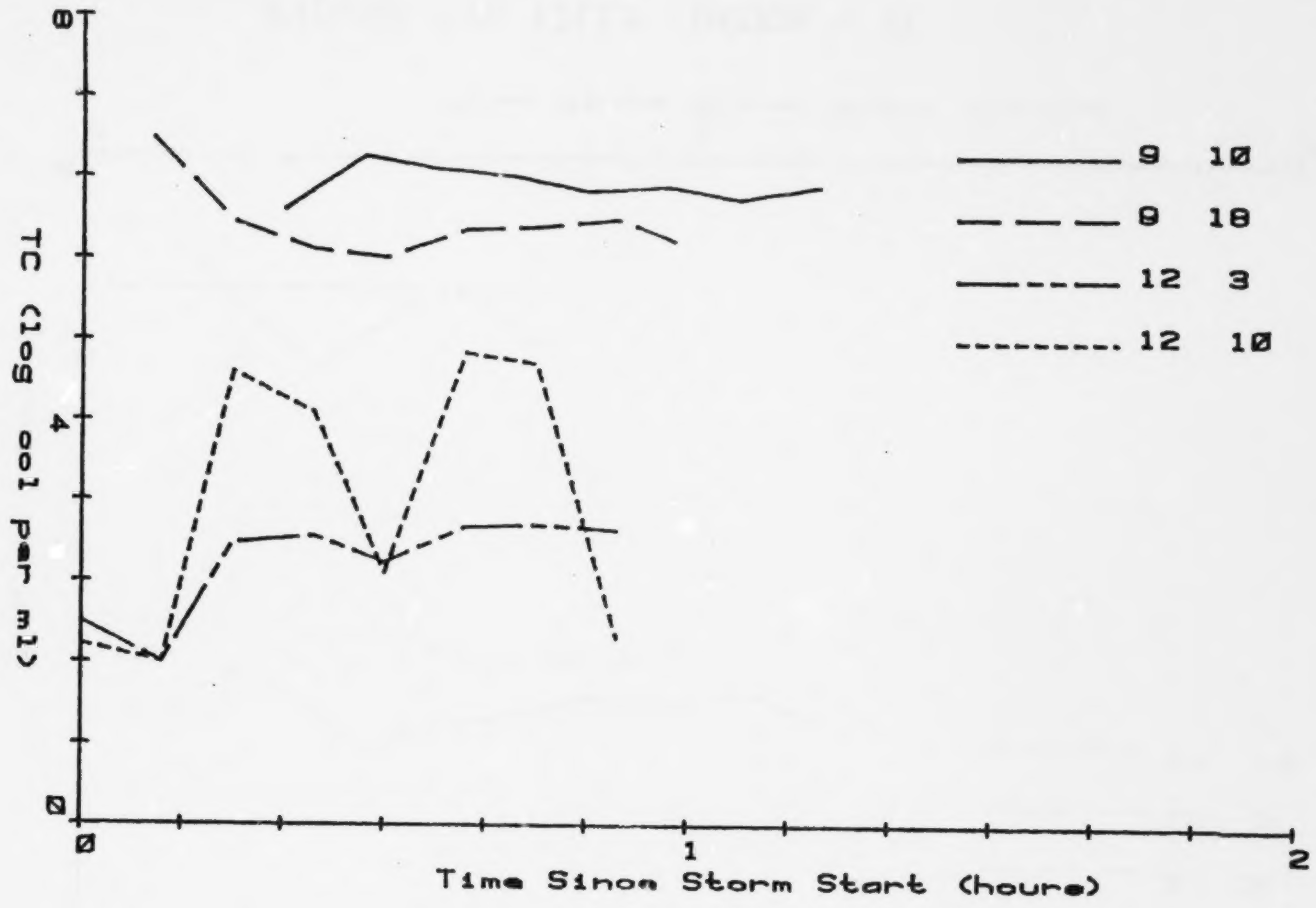


FIGURE A-146 TILLY BROOK - TC

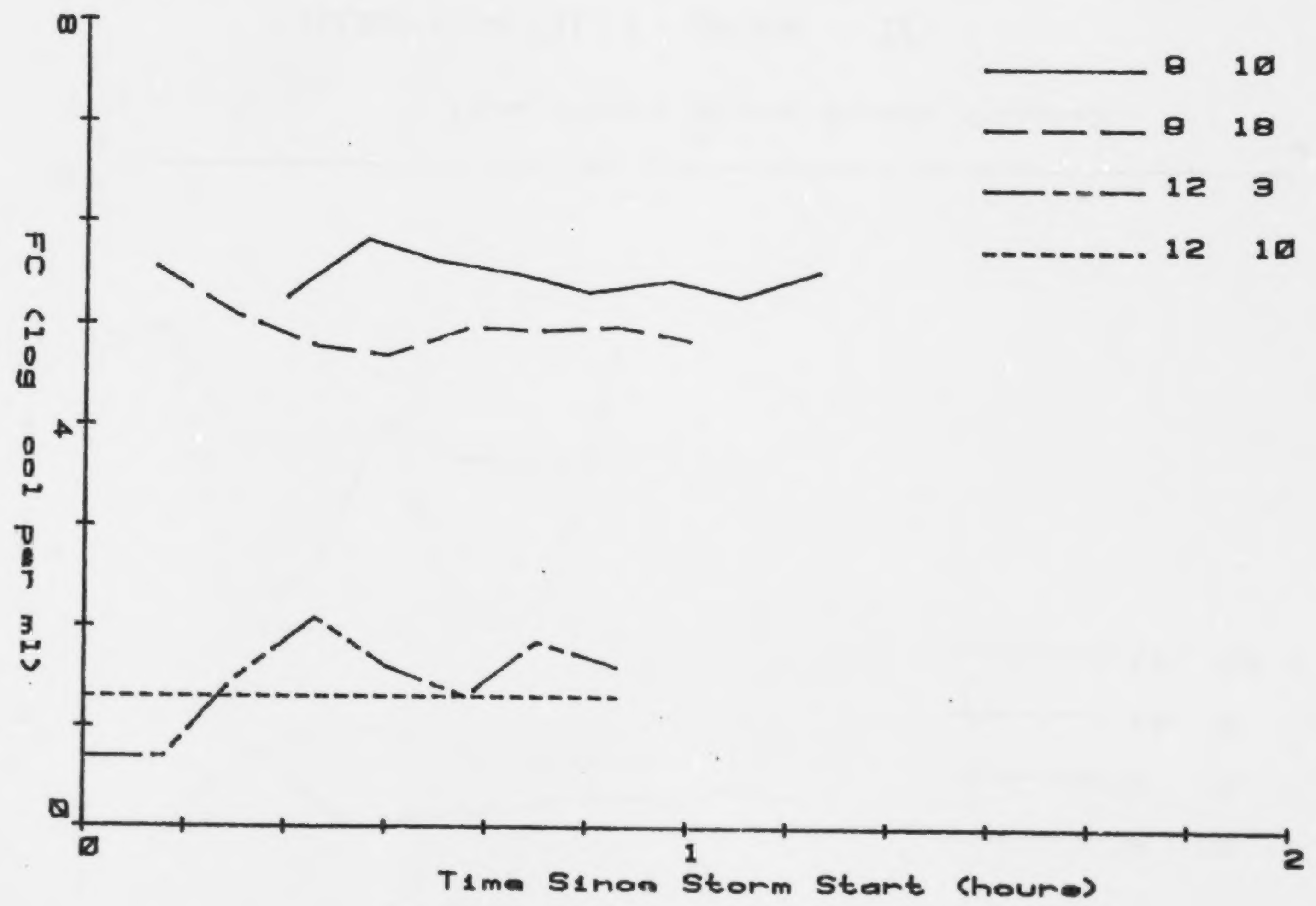


FIGURE A-147 TILLY BROOK - FC

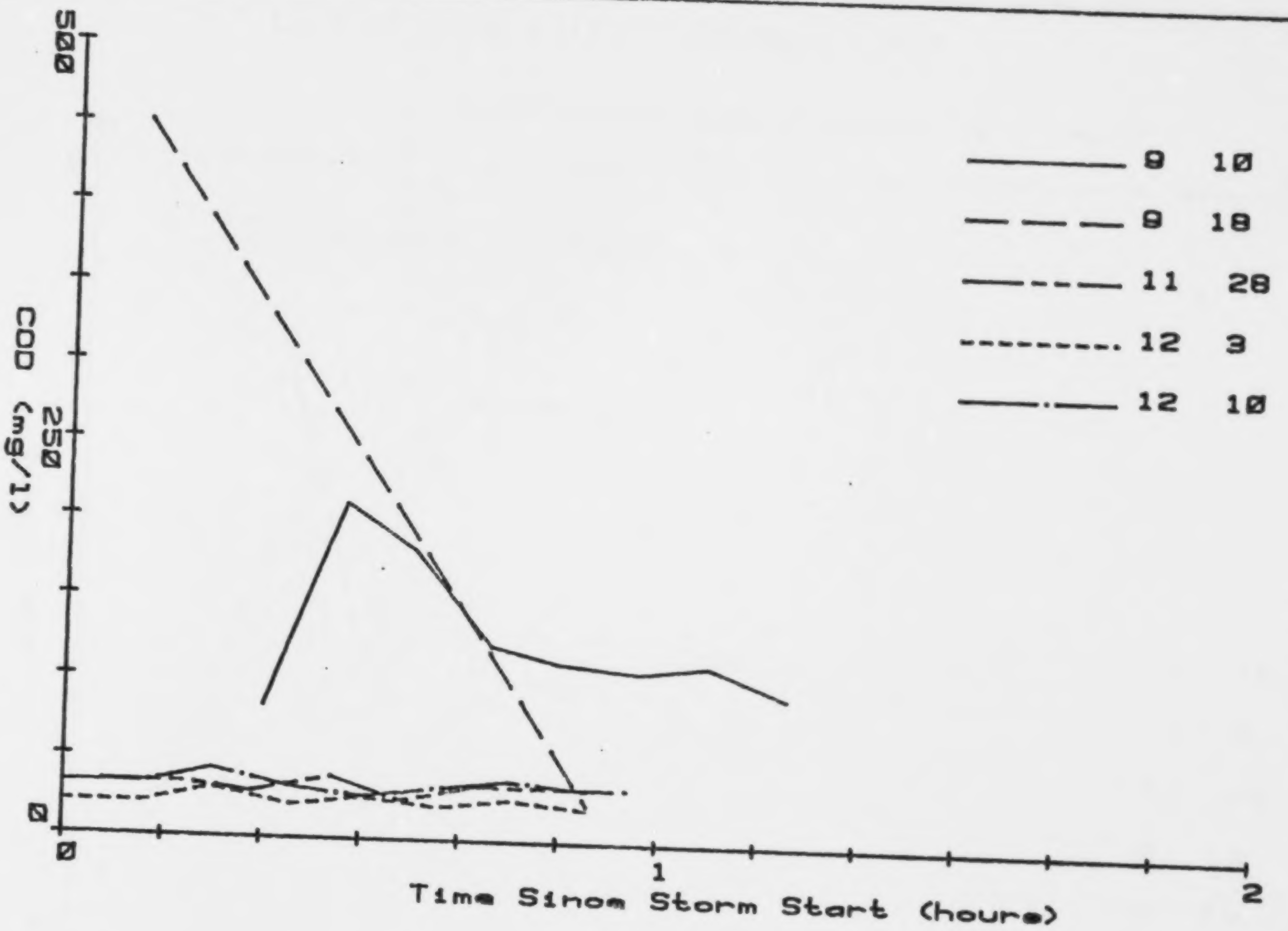


FIGURE A-148 TILLY BROOK - COD

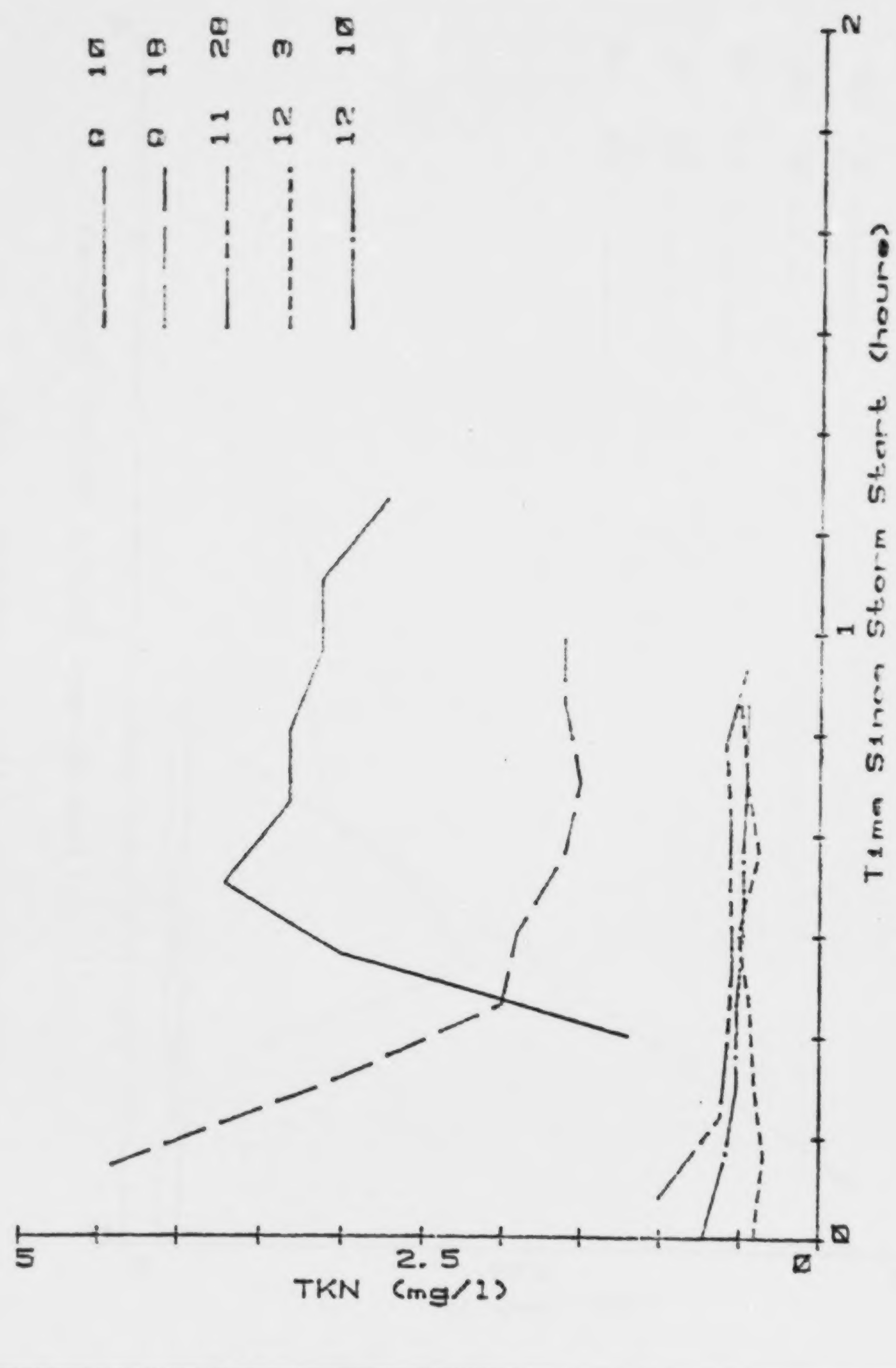


FIGURE A-149 TILLY BROOK - TKN

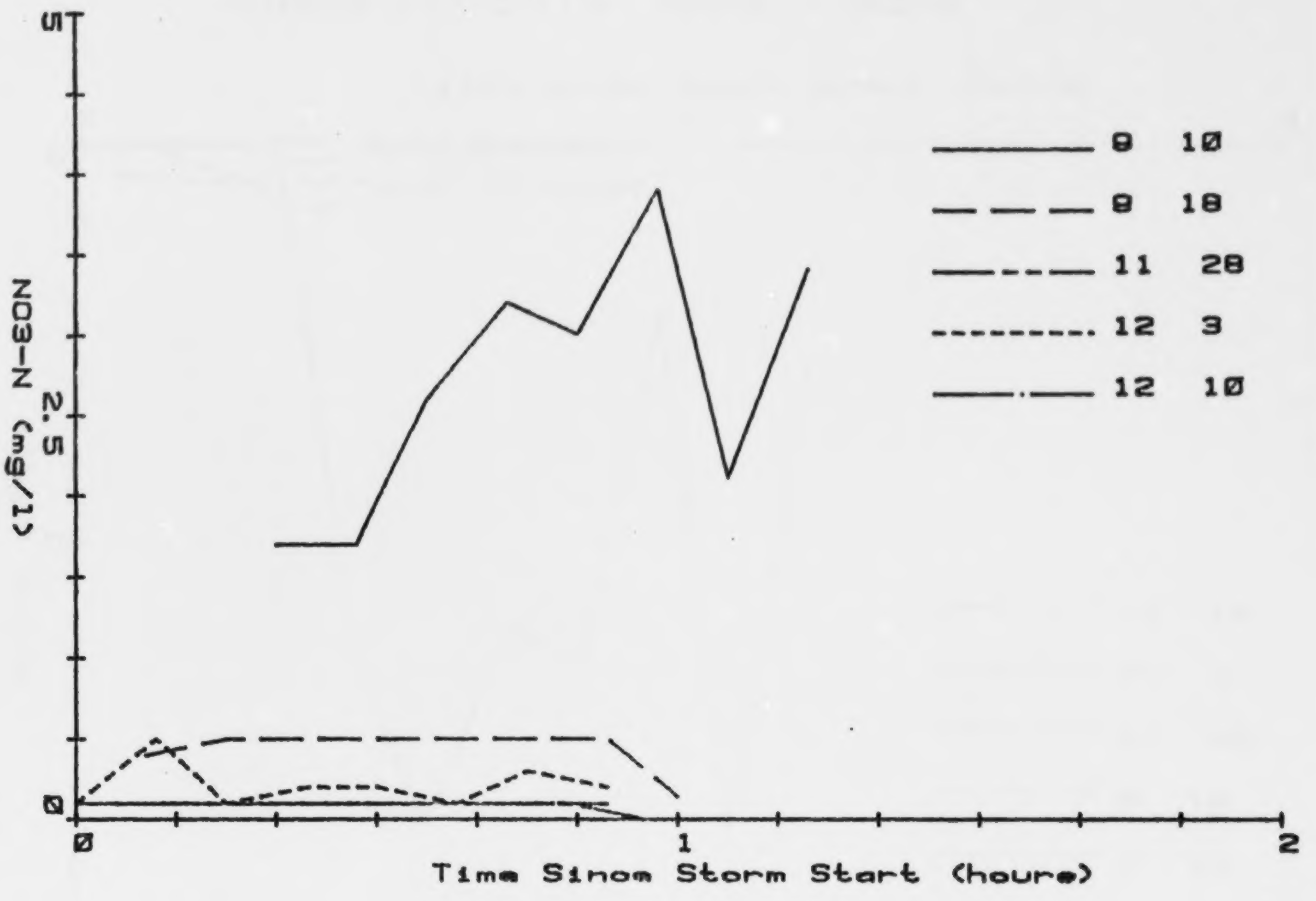


FIGURE A-150 TILLY BROOK - NO3-N

153

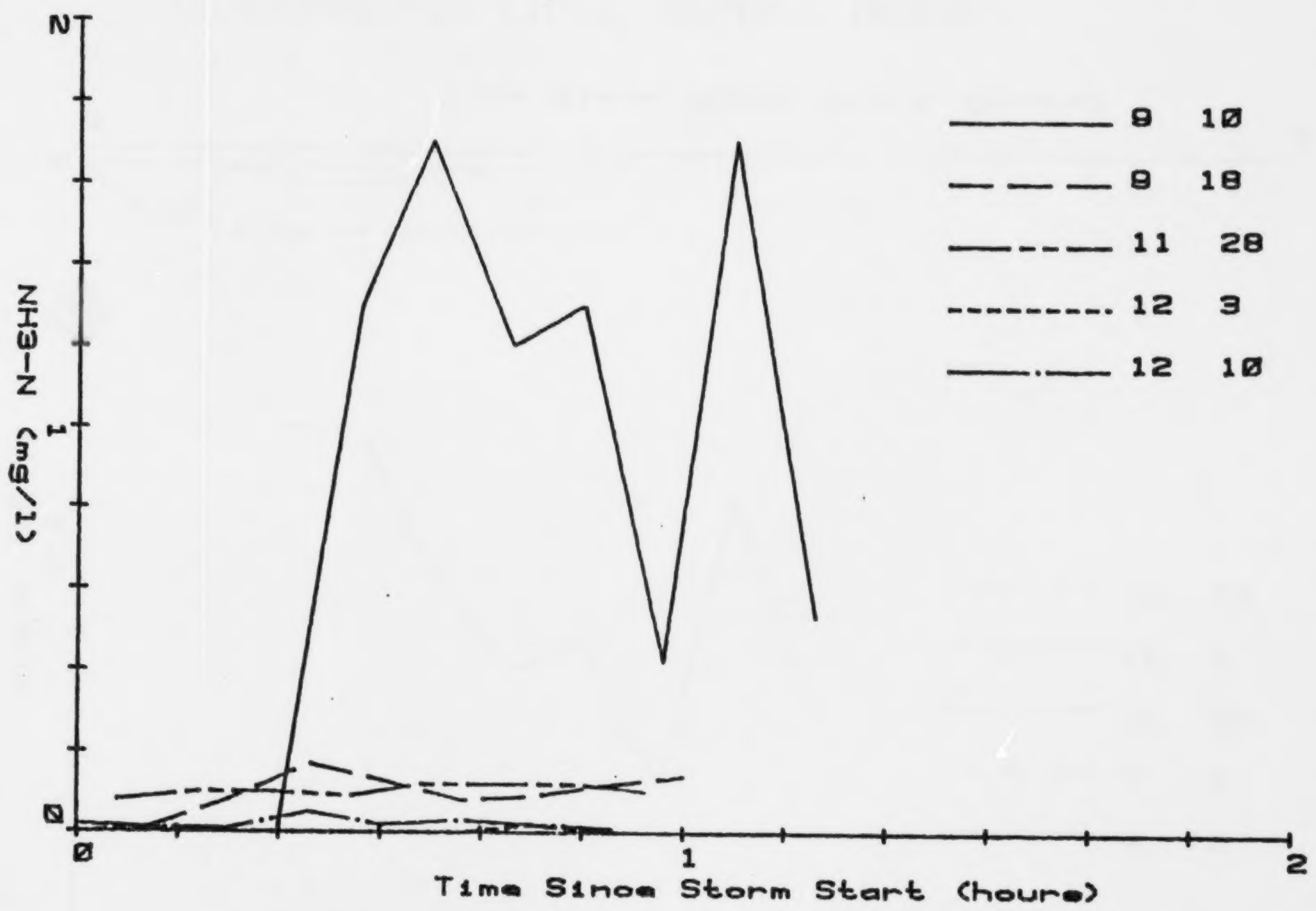


FIGURE A-151 TILLY BROOK - NH3-N

154

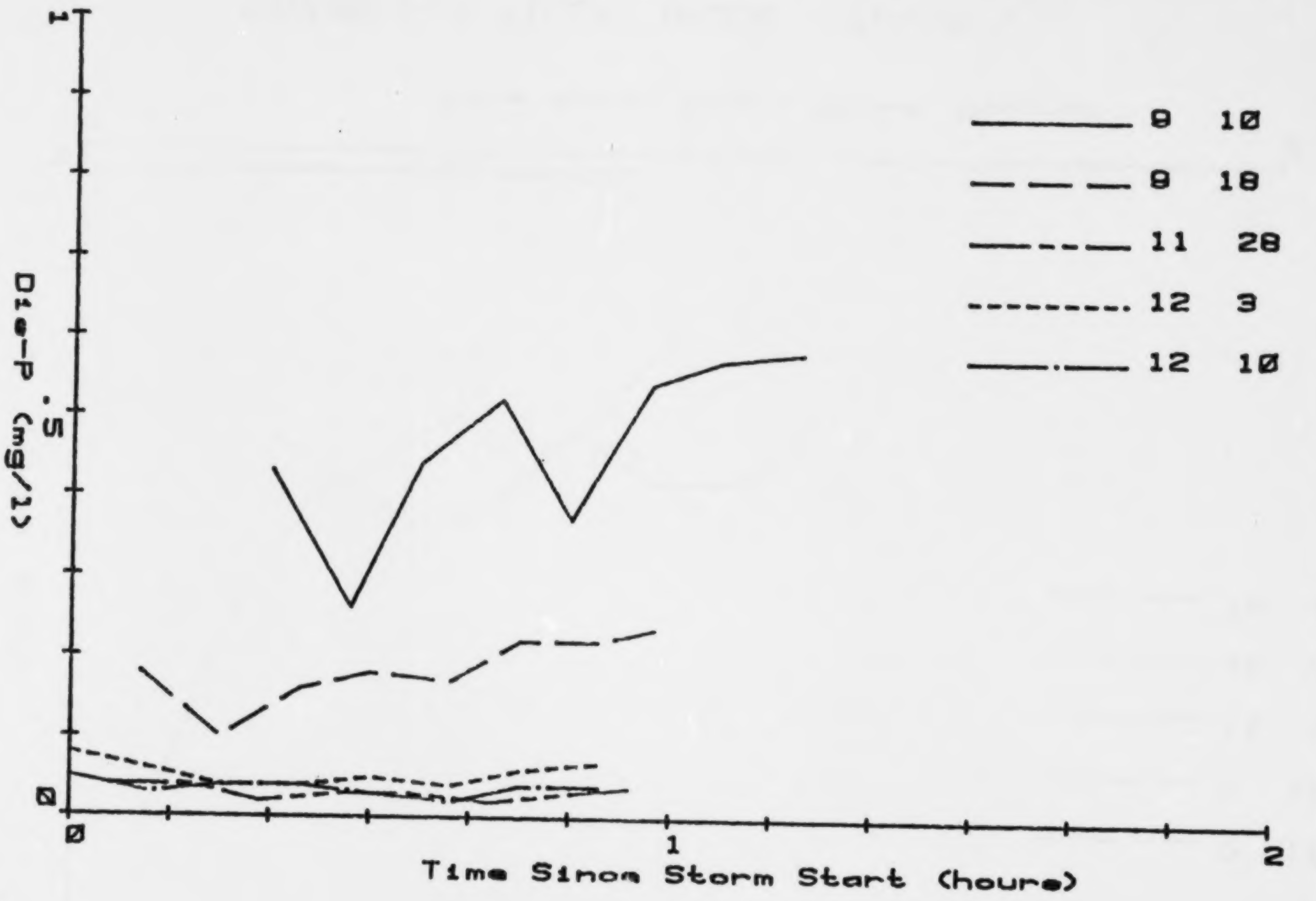


FIGURE A-152 TILLY BROOK - Dis-P

155

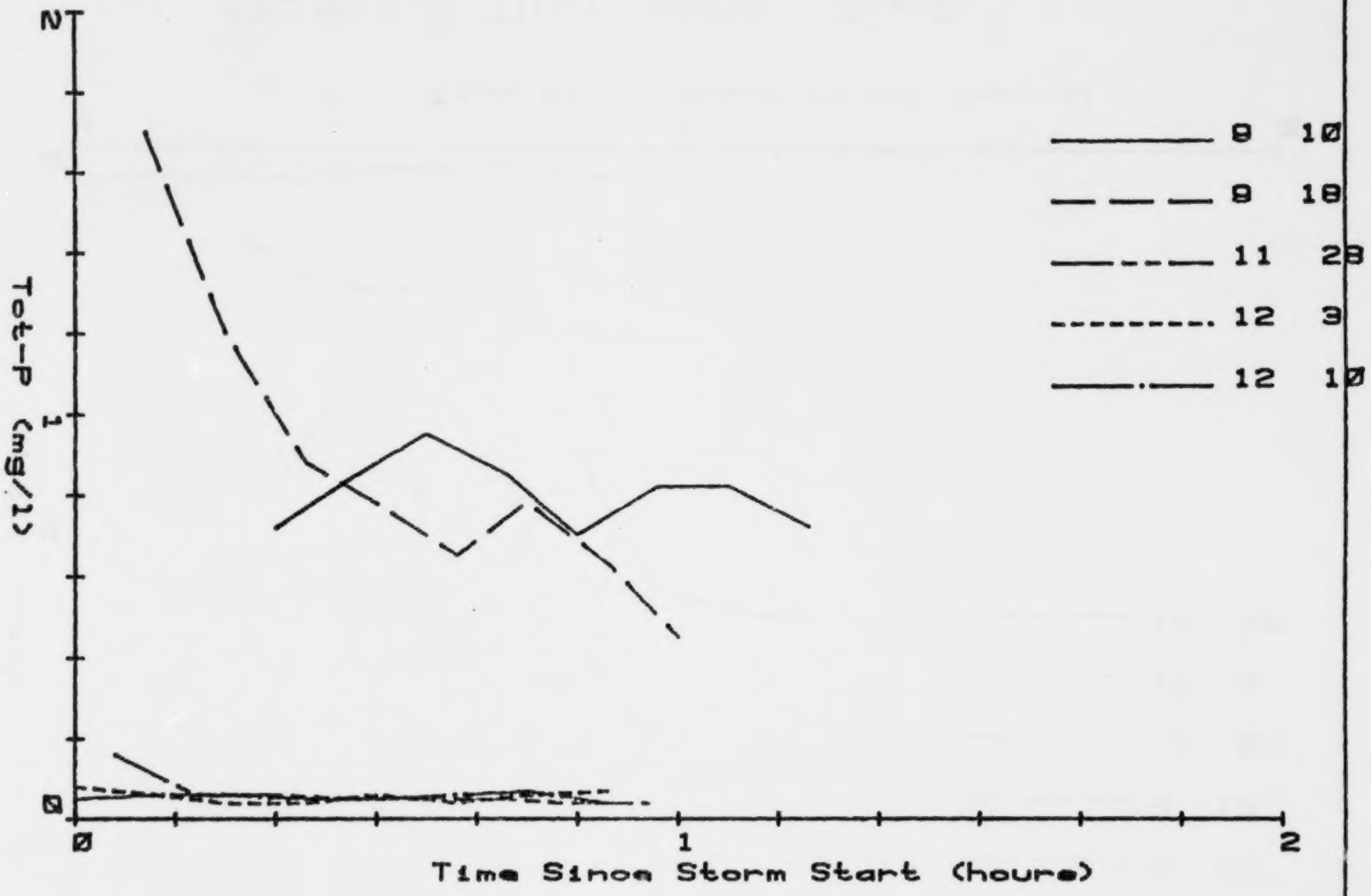


FIGURE A-153 TILLY BROOK - Tot-P

156

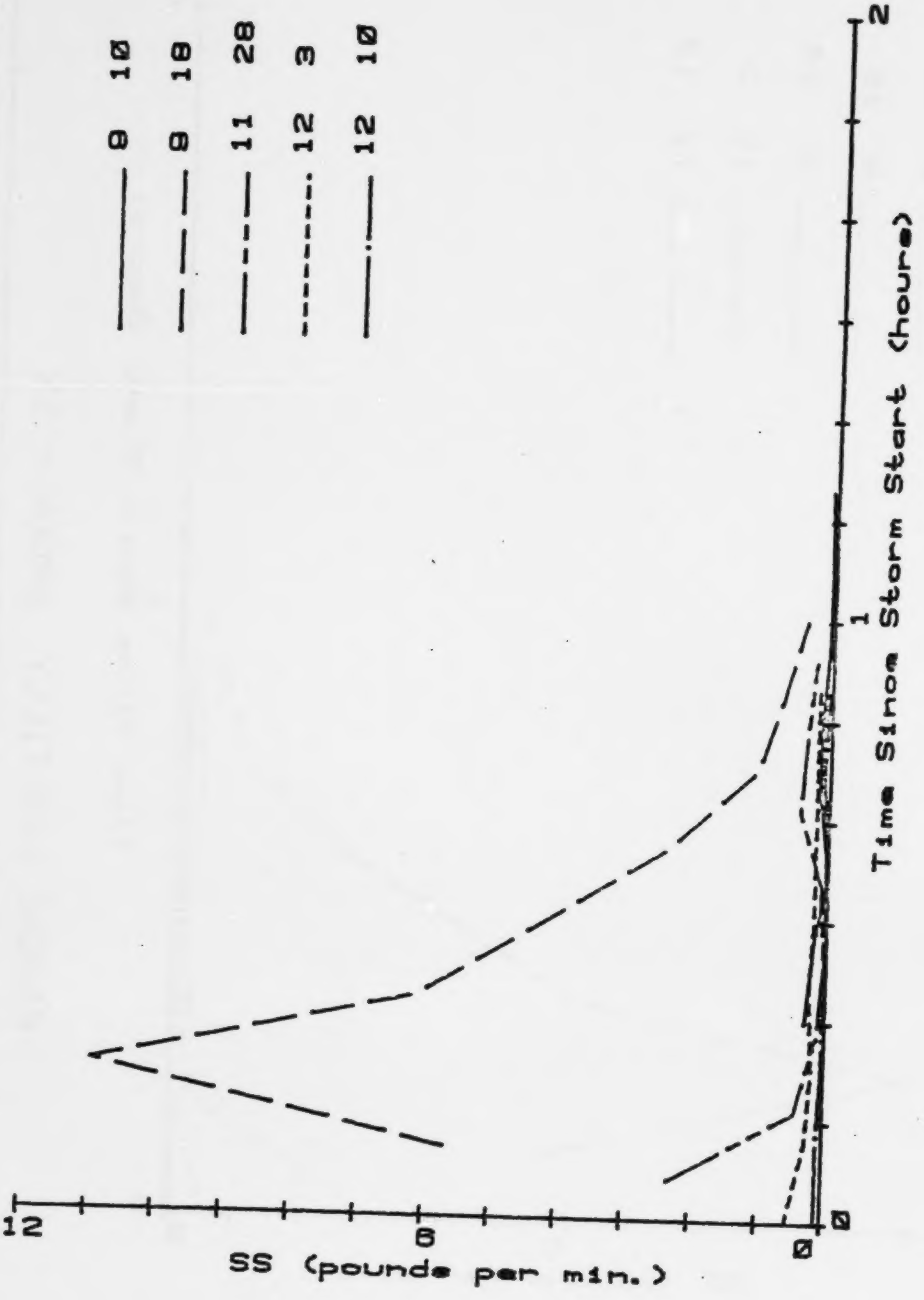


FIGURE A-154 TILLY BROOK - SS

157

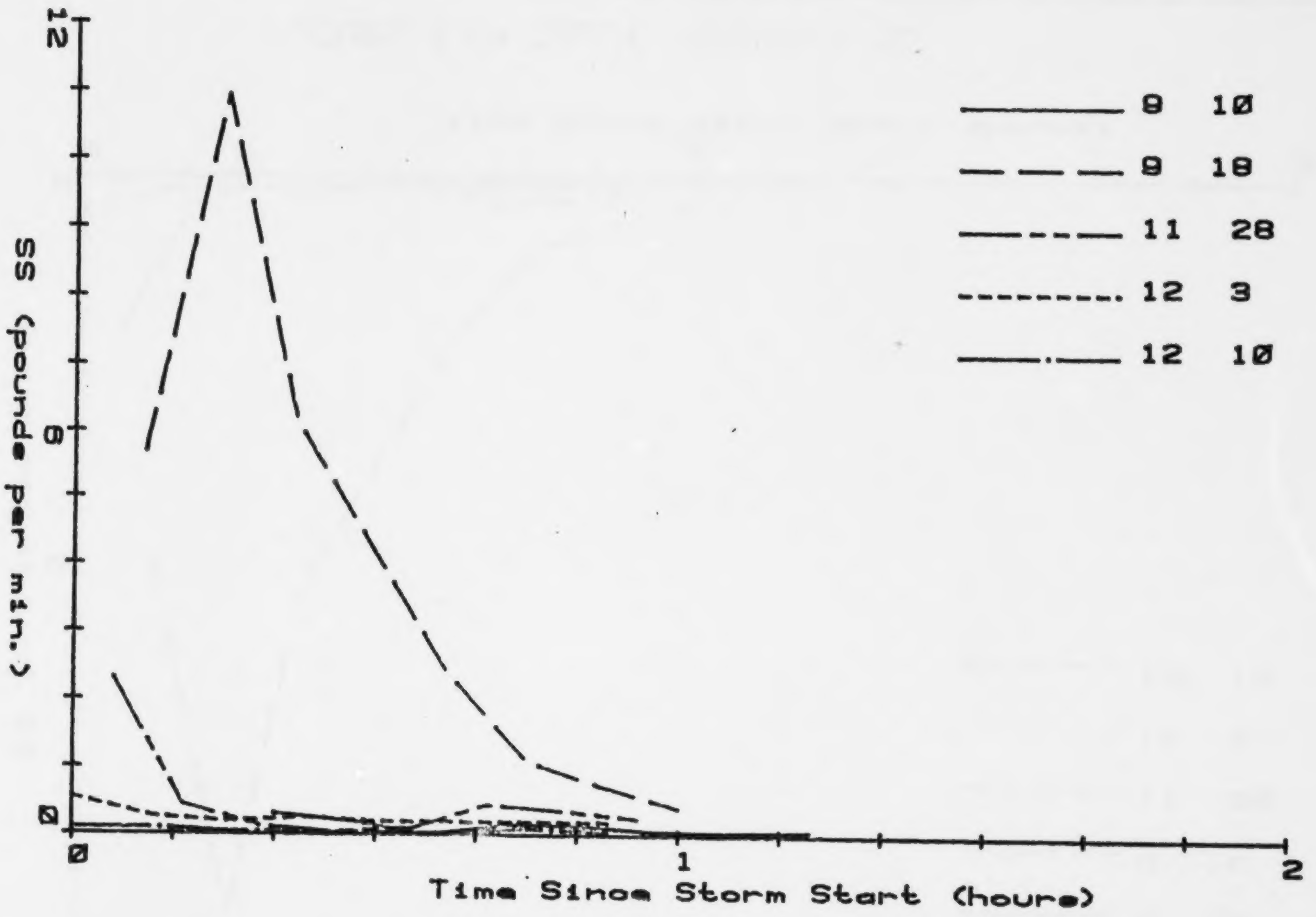


FIGURE A-154 TILLY BROOK - SS

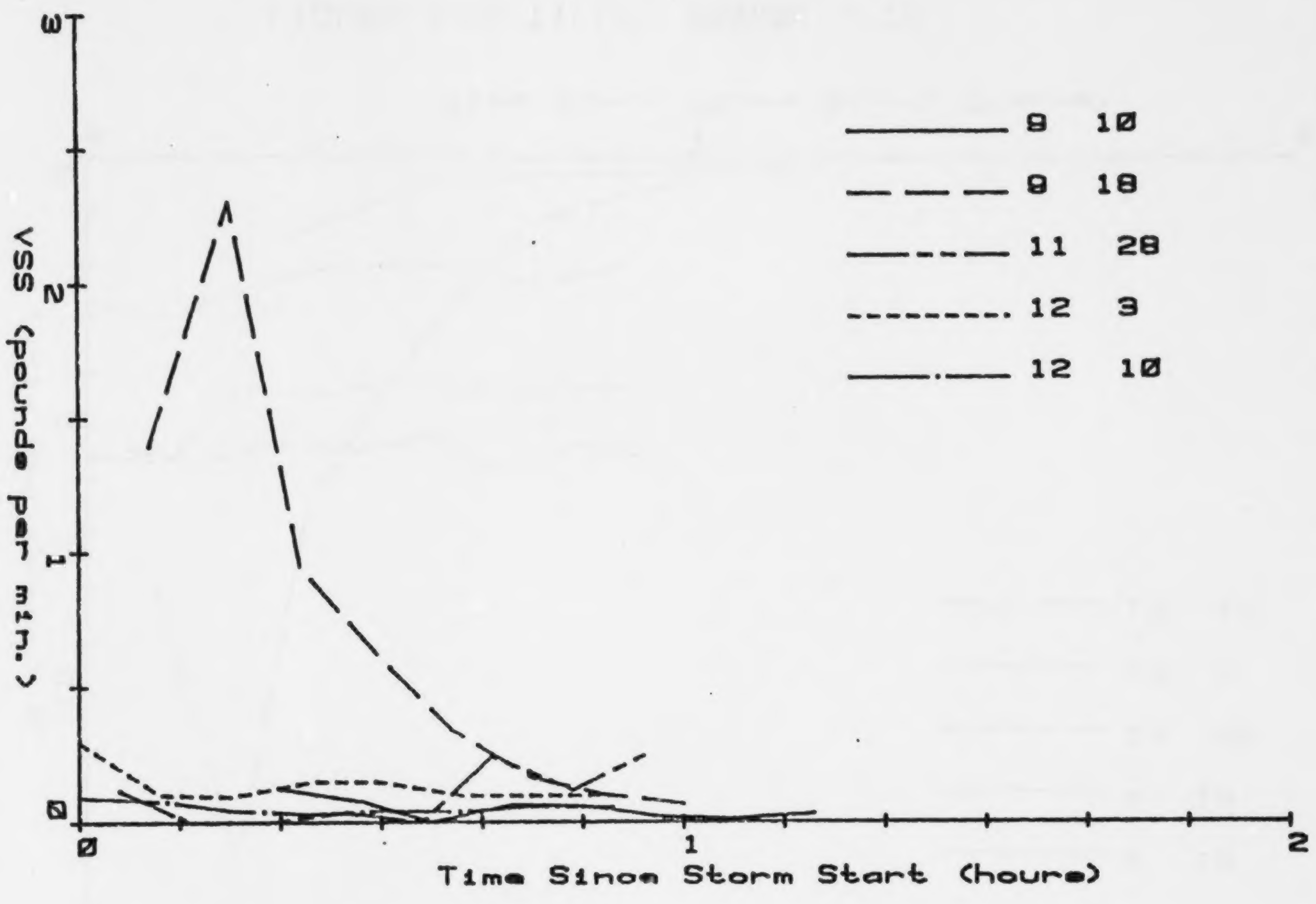


FIGURE A-155 TILLY BROOK - VSS

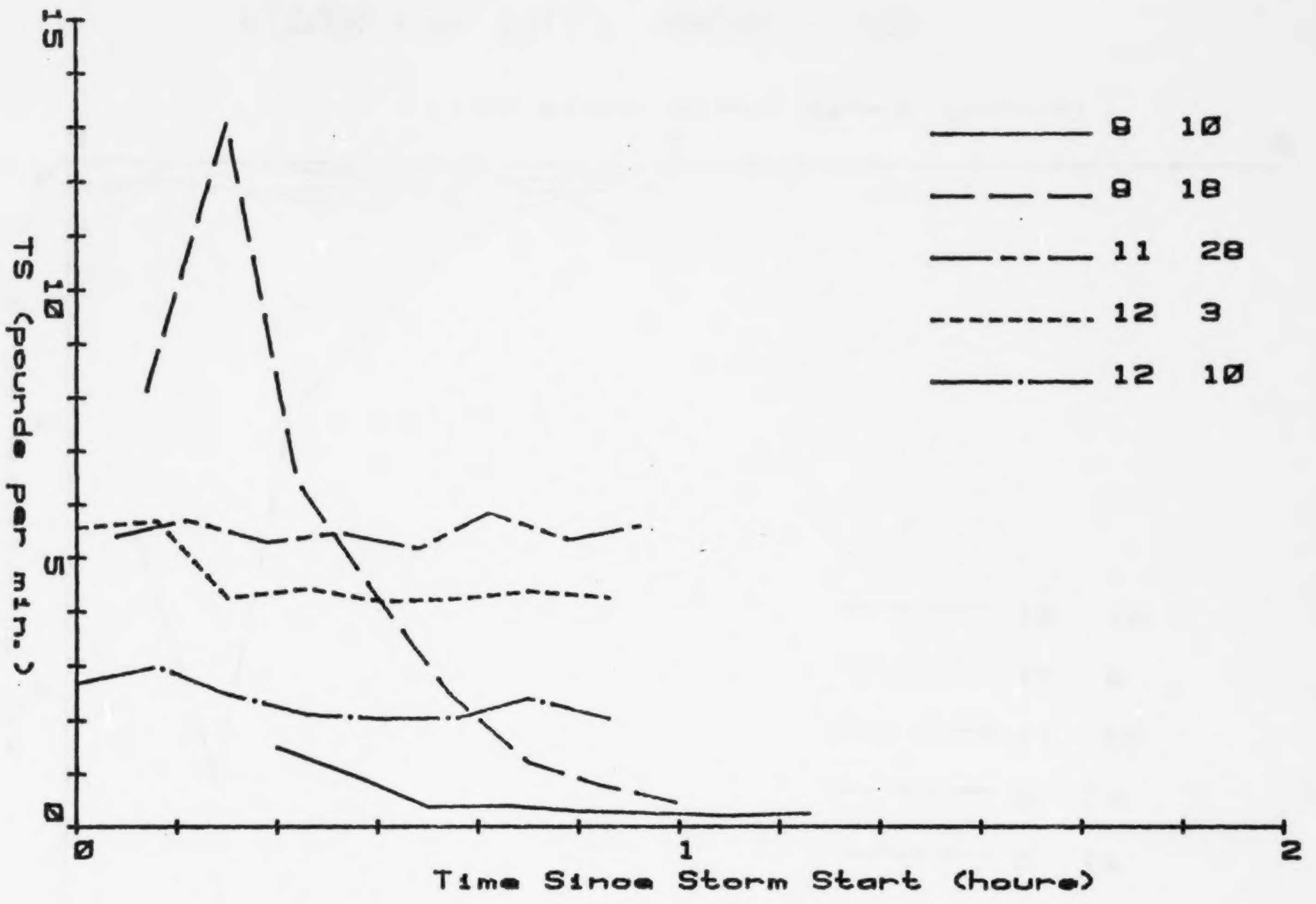


FIGURE A-156 TILLY BROOK - TS

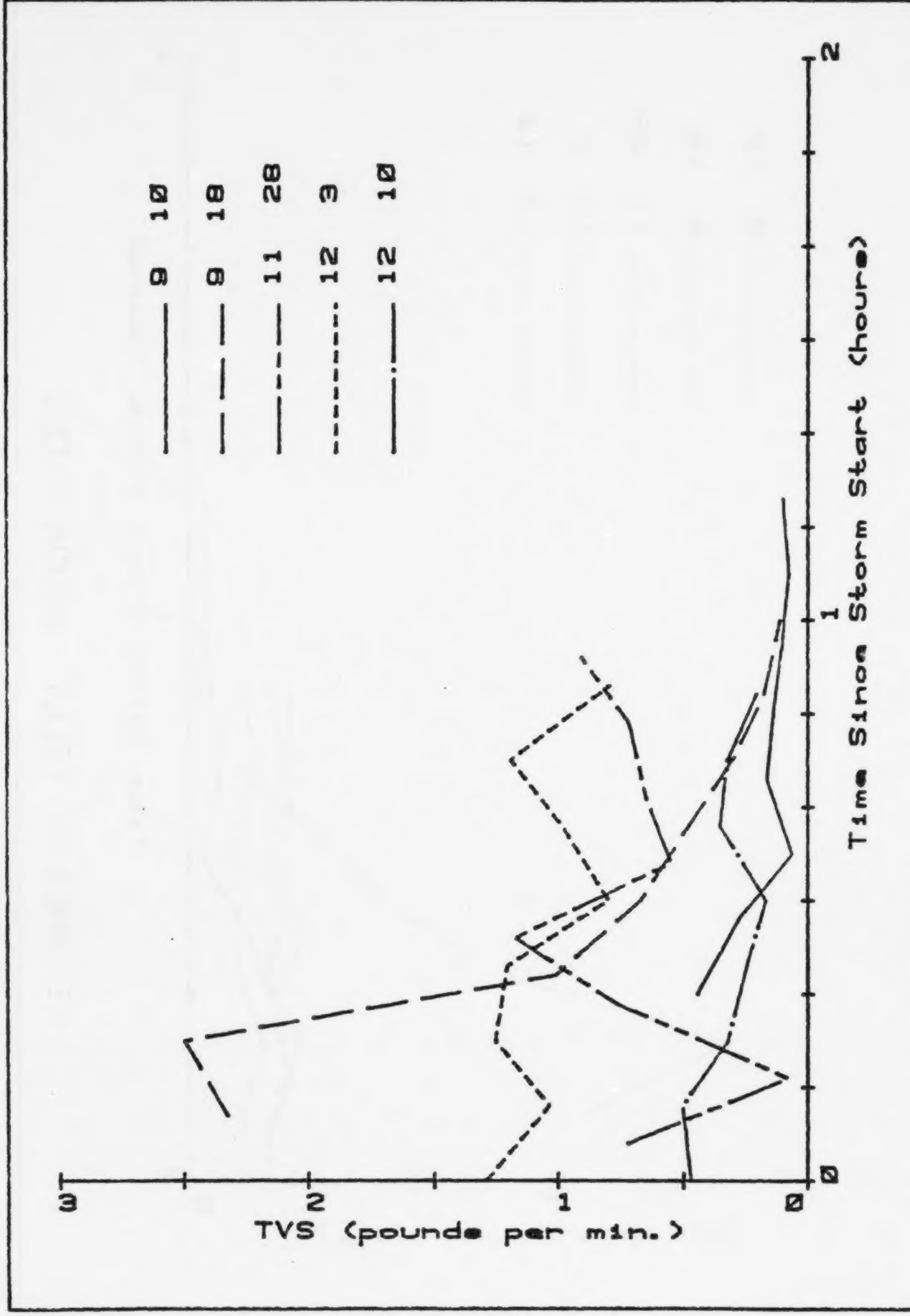


FIGURE A-157 TILLY BROOK - TVS

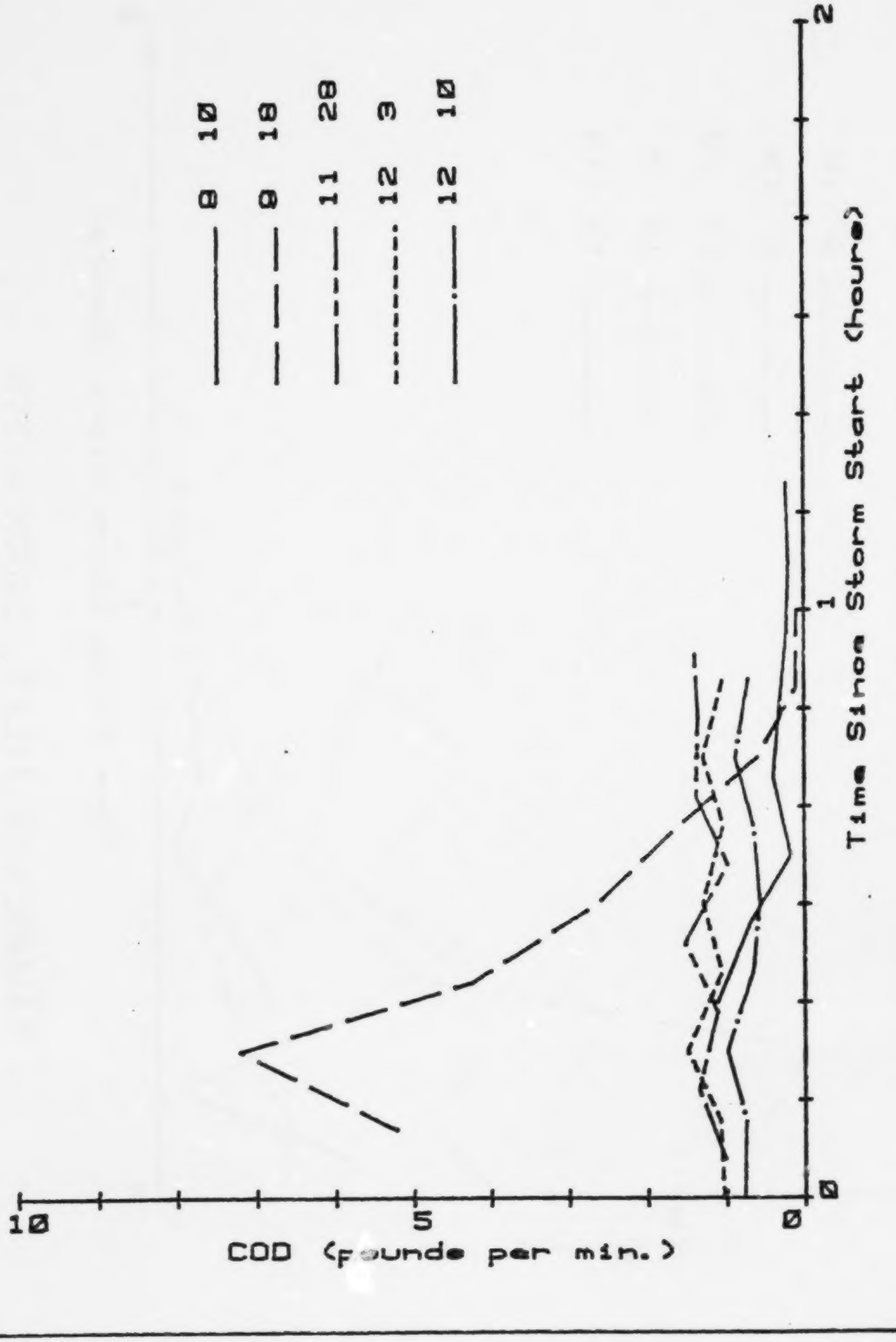


FIGURE A-158 TILLY BROOK - COD

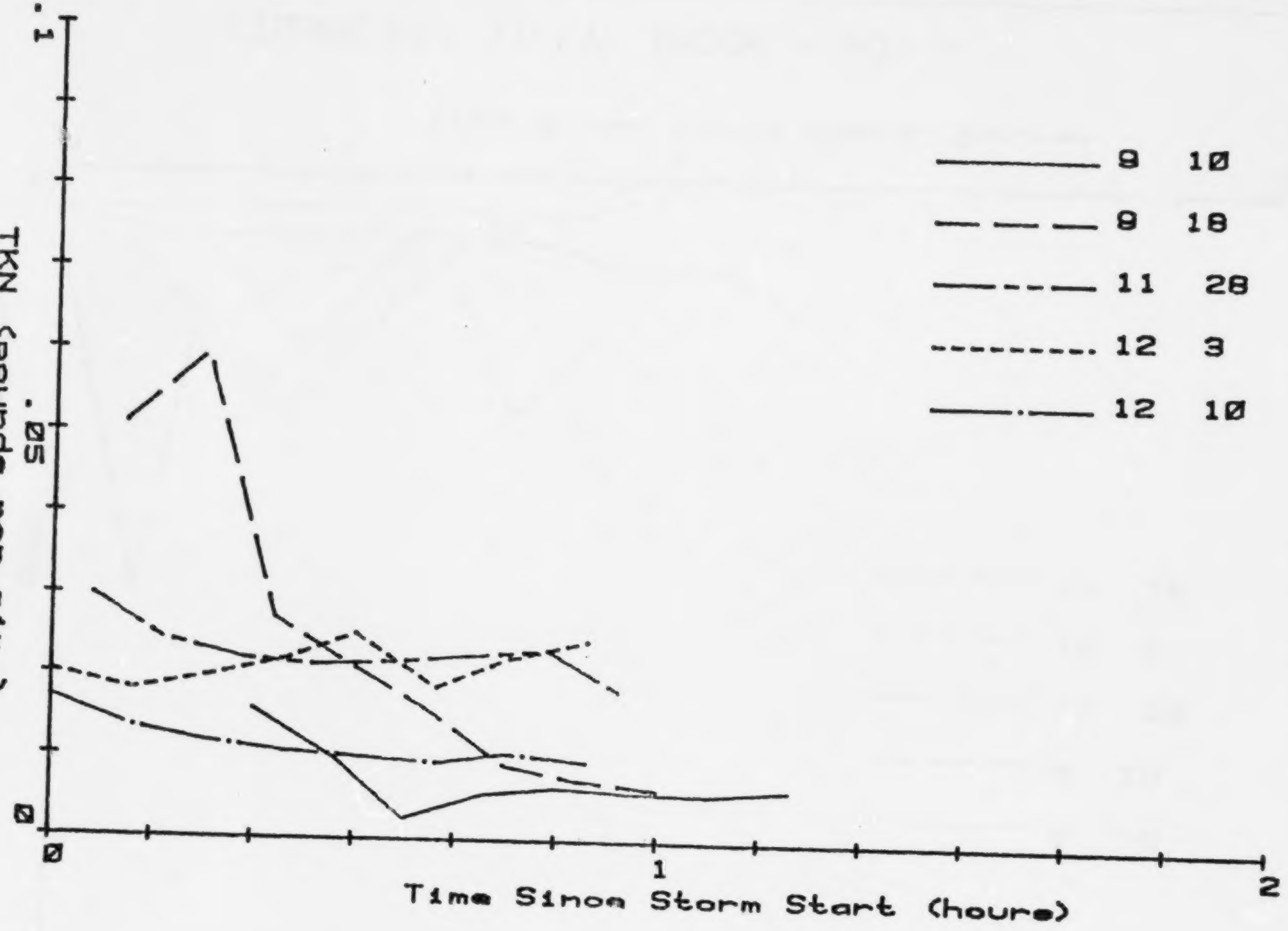


FIGURE A-159 TILLY BROOK - TKN

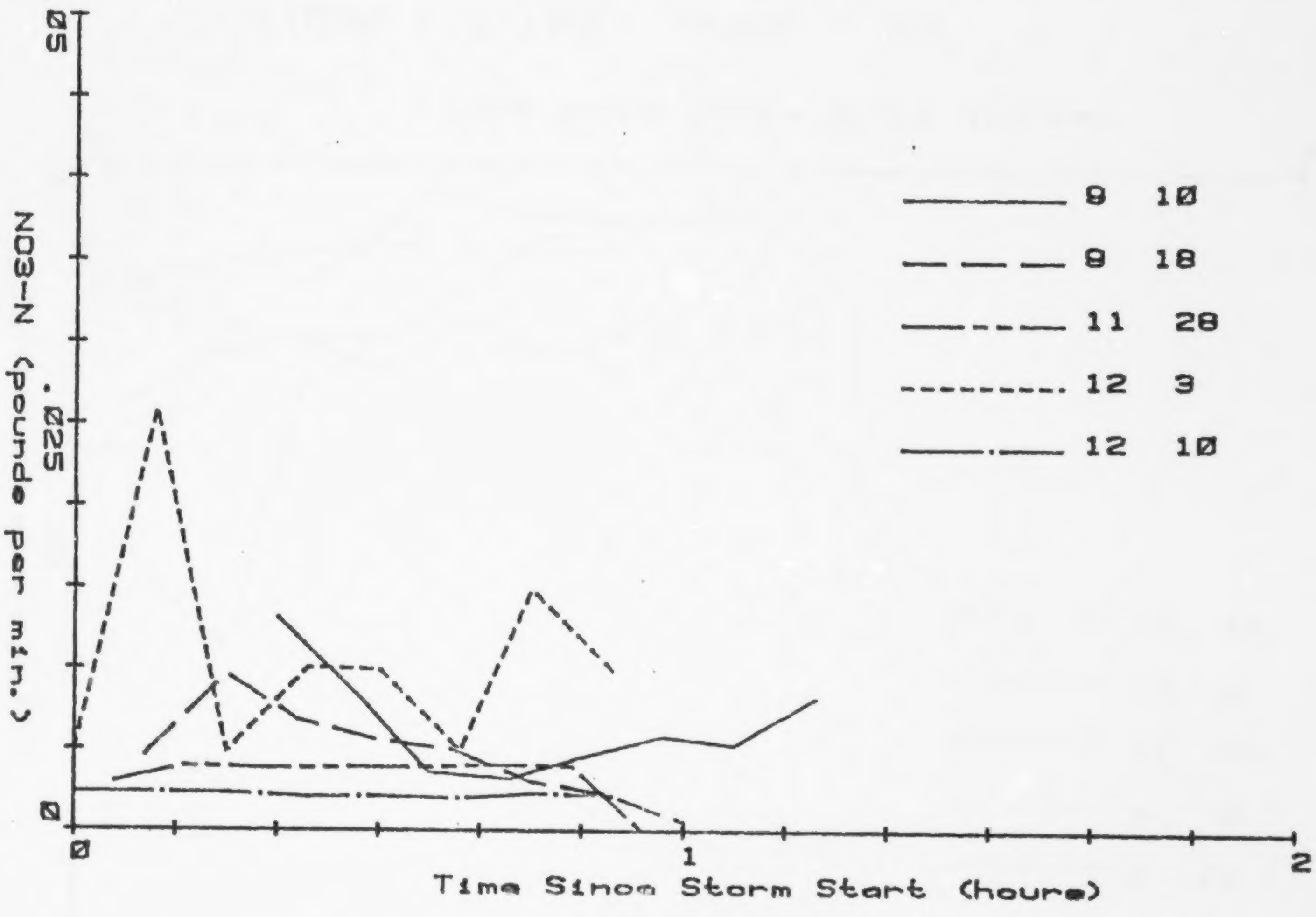


FIGURE A-160 TILLY BROOK - NO3-N

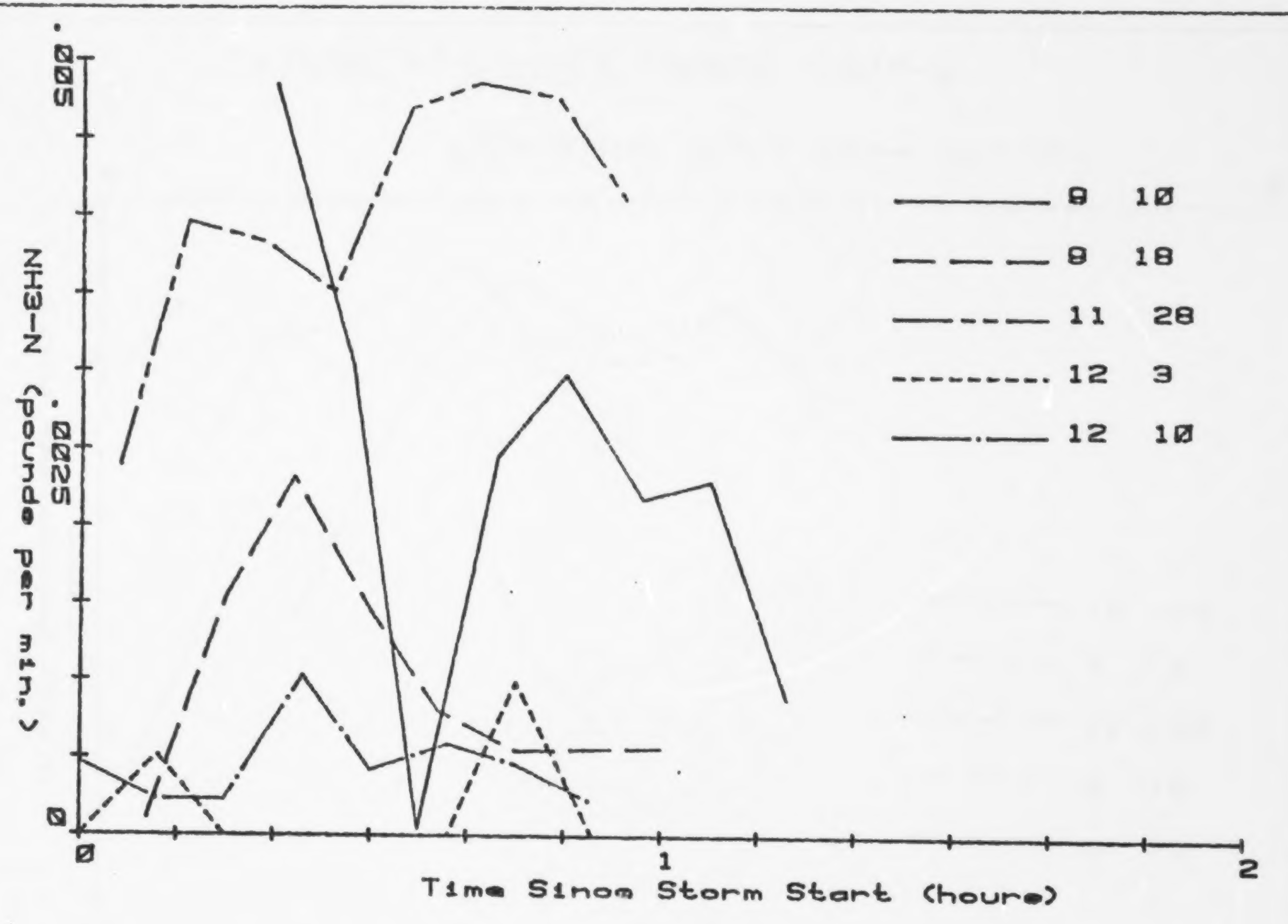


FIGURE A-161 TILLY BROOK - NH3-N

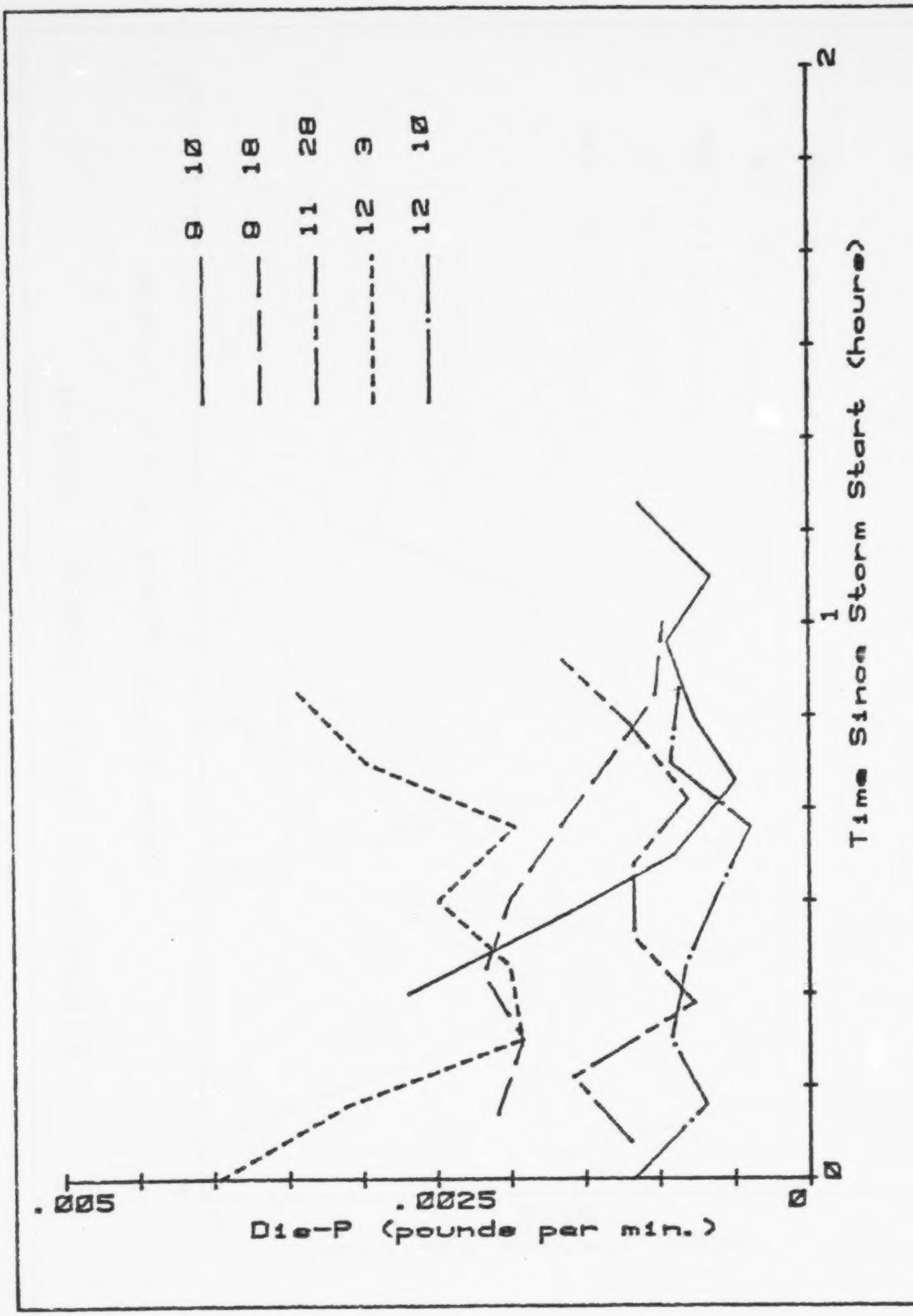


FIGURE A-162 TILLY BROOK - Dis-P

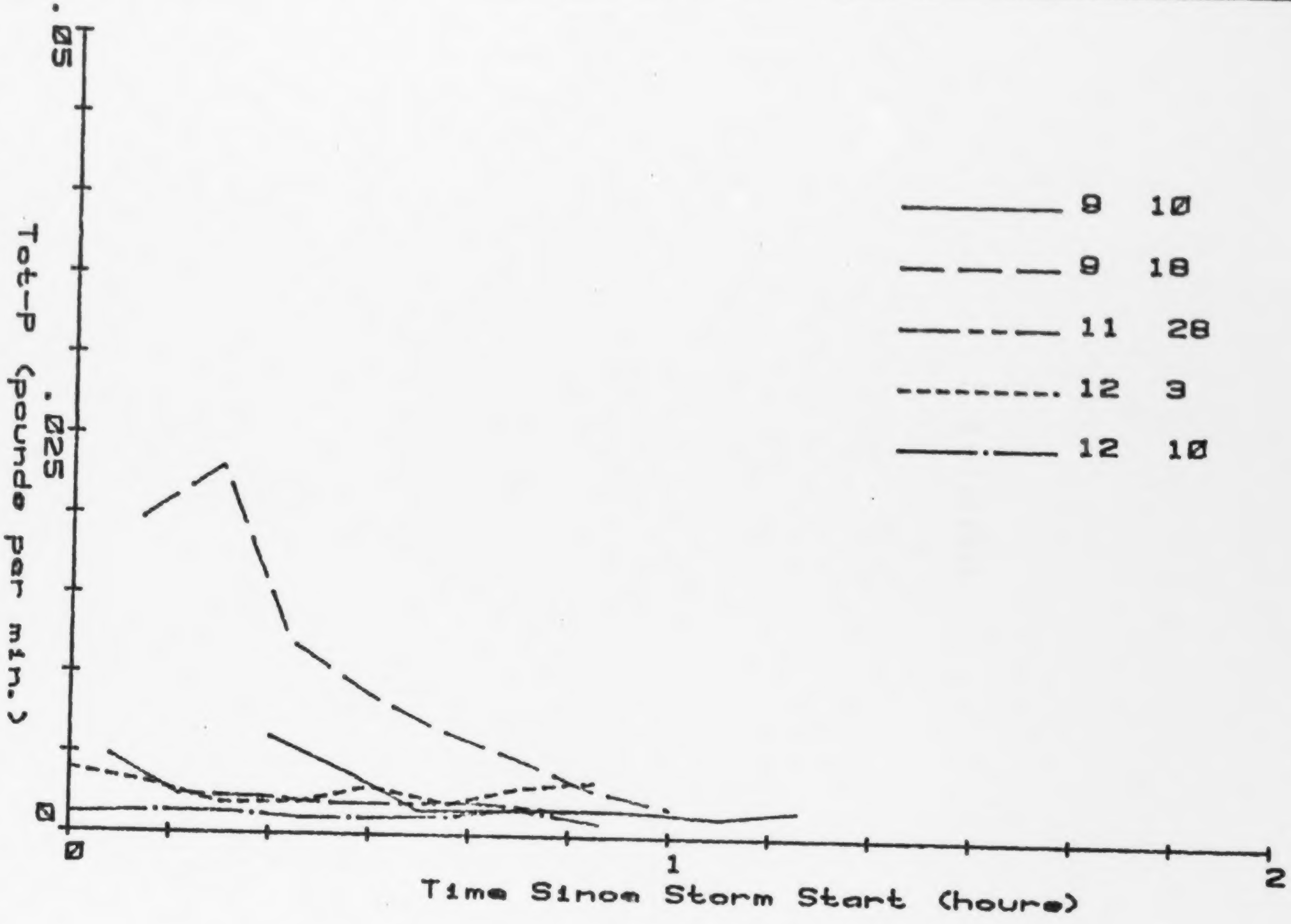


FIGURE A-163 TILLY BROOK - Tot-P

APPENDIX B

Appendix B

Simulation Model Runs

This Appendix contains the simulation model outputs for present and future conditions, modeling the rain years of 1964 through 1973, and 1979 through 1980. In the tables the means are over the set of all storms analyzed for that year. Flows are in acre-inches per storm, loadings in pounds per storm, and concentrations in mg/l per storm. Total annual loads are given for flow and water quality parameters in the first part of each table.

The second set of tables present the loadings for the same rain period using future land uses. The only change incorporated in these runs is alteration of the land use mix to reflect the projection of future growth in the watershed.

TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE·IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	166.50	1522.26	35.06	1.94	9.66	67.41	1.42	0.07	0.41
2	Q2	2	191.15	3046.57	62.40	3.01	16.91	109.75	2.18	0.10	0.60
3	Q3	3	169.78	2849.99	51.55	2.49	14.78	115.89	2.06	0.10	0.60
4	Q4	4	123.29	1037.76	22.83	1.45	5.81	62.69	1.23	0.07	0.32
5	Q5	5	175.79	3415.08	65.58	3.21	16.33	129.10	2.46	0.12	0.61
6	Q6	6	257.27	3944.46	83.18	4.32	19.78	103.28	2.12	0.11	0.51
7	Q7	7	85.39	1469.13	28.06	1.30	8.14	120.33	2.25	0.10	0.66

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE·IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	6494.	59368.	1363.	76.	377.	67.41	1.42	0.07	0.41
2	Q2	2	7455.	118832.	2434.	118.	659.	109.75	2.18	0.10	0.60
3	Q3	3	6621.	110760.	2010.	97.	577.	115.89	2.06	0.10	0.60
4	Q4	4	4808.	42423.	890.	57.	227.	62.69	1.23	0.07	0.32
5	Q5	5	6856.	133189.	2558.	125.	637.	129.10	2.46	0.12	0.61
6	Q6	6	10033.	153834.	3244.	108.	772.	103.28	2.12	0.11	0.51
7	Q7	7	3272.	57295.	1094.	51.	318.	120.33	2.25	0.10	0.66

TABLE

POLITICAL SEGMENTS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	770.81	7754.64	168.46	8.88	47.88	292.19	5.80	0.27	1.74
2	Q2	2	871.56	15618.81	311.56	14.59	85.61	478.61	9.26	0.41	2.59
3	Q3	3	766.33	14442.66	257.30	12.15	74.56	527.38	9.22	0.42	2.70
4	Q4	4	564.52	5527.86	110.05	6.75	28.74	278.26	5.17	0.29	1.40
5	Q5	5	787.77	17476.74	332.97	16.15	83.22	576.22	10.90	0.52	2.73
6	Q6	6	1166.15	20229.09	417.93	21.20	100.30	450.52	9.10	0.45	2.21
7	Q7	7	379.89	7504.60	140.54	6.34	41.23	537.65	9.86	0.43	2.93

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	57.12	569.38	12.94	0.71	3.59	84.97	1.75	0.08	0.51
2	Q2	2	65.68	1151.40	23.44	1.12	6.37	121.31	2.39	0.11	0.66
3	Q3	3	58.40	1103.18	19.92	0.96	5.73	123.92	2.19	0.10	0.64
4	Q4	4	42.34	414.60	8.58	0.54	2.20	71.64	1.38	0.08	0.37
5	Q5	5	60.51	1312.09	25.15	1.23	6.27	134.34	2.55	0.12	0.64
6	Q6	6	88.45	1493.36	31.35	1.62	7.47	110.97	2.27	0.11	0.55
7	Q7	7	28.84	563.89	10.72	0.49	3.12	129.62	2.41	0.11	0.71

TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	<----LOAD (POUNDS)----> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	<--CONCENTRATION (MG / L)---> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	146.08	1612.56	36.12	1.94	10.11	65.86	1.39	0.07	0.40
2	Q2	2	168.35	3240.22	65.60	3.12	17.89	100.37	1.99	0.09	0.55
3	Q3	3	149.92	3019.73	54.40	2.60	15.67	102.33	1.82	0.09	0.53
4	Q4	4	108.46	1153.66	23.65	1.48	6.09	57.86	1.13	0.07	0.30
5	Q5	5	155.51	3634.89	69.58	3.39	17.35	113.24	2.16	0.10	0.54
6	Q6	6	226.93	4196.07	87.71	4.51	20.94	93.08	1.92	0.10	0.46
7	Q7	7	74.02	1562.43	29.60	1.36	8.63	107.52	2.01	0.09	0.59

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	<----LOAD (POUNDS)----> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	<--CONCENTRATION (MG / L)---> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	10956.	120942.	2709.	145.	758.	65.86	1.39	0.07	0.40
2	Q2	2	12627.	243017.	4920.	234.	1341.	100.37	1.99	0.09	0.55
3	Q3	3	11244.	220481.	4080.	195.	1175.	102.33	1.82	0.09	0.53
4	Q4	4	8135.	86525.	1773.	111.	457.	57.86	1.13	0.07	0.30
5	Q5	5	11663.	272617.	5218.	254.	1301.	113.24	2.16	0.10	0.54
6	Q6	6	17020.	314707.	6573.	338.	1571.	93.08	1.92	0.10	0.46
7	Q7	7	5551.	117182.	2220.	102.	647.	107.52	2.01	0.09	0.59

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	681.74	7683.31	167.41	8.78	47.54	248.91	4.91	0.22	1.48
2	Q2	2	773.42	15507.14	309.96	14.53	85.08	340.88	6.60	0.30	1.84
3	Q3	3	681.58	14469.38	258.17	12.21	74.75	352.66	6.18	0.28	1.81
4	Q4	4	500.48	5506.55	109.96	6.74	28.69	204.06	3.79	0.22	1.03
5	Q5	5	701.78	17429.26	332.30	16.13	83.02	378.56	7.17	0.34	1.80
6	Q6	6	1036.20	20091.63	415.78	21.12	99.72	310.34	6.28	0.31	1.52
7	Q7	7	337.63	7484.23	140.39	6.35	41.15	366.13	6.73	0.29	2.00

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	45.16	470.25	10.60	0.57	2.96	54.78	1.15	0.06	0.33
2	Q2	2	52.37	942.18	19.13	0.91	5.21	80.66	1.60	0.07	0.44
3	Q3	3	46.32	872.15	15.74	0.76	4.53	80.64	1.43	0.07	0.42
4	Q4	4	33.68	334.80	6.90	0.43	1.77	46.67	0.91	0.05	0.24
5	Q5	5	48.71	1052.38	20.16	0.98	5.03	89.11	1.70	0.08	0.42
6	Q6	6	70.76	1219.46	25.55	1.32	6.09	74.25	1.53	0.08	0.37
7	Q7	7	23.09	452.51	8.59	0.39	2.50	85.30	1.59	0.07	0.47

TABLE

DRAINAGE SEGMENTS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE·IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	204.95	2022.59	46.09	2.52	12.77	58.73	1.26	0.06	0.36
2	Q2	2	234.72	4056.90	82.71	3.97	22.47	98.26	1.96	0.09	0.54
3	Q3	3	208.15	3781.82	68.43	3.30	19.66	102.84	1.83	0.09	0.53
4	Q4	4	151.49	1446.87	30.08	1.90	7.70	55.35	1.09	0.07	0.29
5	Q5	5	215.27	4549.20	87.25	4.26	21.74	116.32	2.22	0.11	0.55
6	Q6	6	315.62	5252.74	110.38	5.71	26.29	93.10	1.92	0.10	0.46
7	Q7	7	102.90	1956.37	37.25	1.72	10.83	107.39	2.01	0.09	0.59

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE·IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	14962.	147649.	3364.	184.	932.	58.73	1.26	0.06	0.36
2	Q2	2	17134.	296155.	6038.	240.	1640.	98.26	1.96	0.09	0.54
3	Q3	3	15195.	276074.	4996.	2[illegible]1.	1435.	102.84	1.83	0.09	0.53
4	Q4	4	11058.	105622.	2196.	1[illegible]9.	562.	55.35	1.09	0.07	0.29
5	Q5	5	15715.	332092.	6369.	311.	1587.	116.32	2.22	0.11	0.55
6	Q6	6	23040.	383450.	8058.	417.	1919.	93.10	1.92	0.10	0.46
7	Q7	7	7512.	142815.	2719.	126.	790.	107.39	2.01	0.09	0.59

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG / L) T S S	CONCENTRATION (MG / L) TOT.NITRO.	CONCENTRATION (MG / L) DIS. PHOS.	CONCENTRATION (MG / L) TOT. PHOS.
1	Q1	1	952.79	9010.84	195.20	10.31	55.55	246.08	4.93	0.23	1.47
2	Q2	2	1078.81	18257.12	363.47	16.99	99.96	408.45	7.93	0.36	2.21
3	Q3	3	949.42	17191.77	305.81	14.41	88.69	439.88	7.71	0.36	2.25
4	Q4	4	698.49	6497.41	128.91	7.90	33.72	233.67	4.37	0.25	1.18
5	Q5	5	976.61	20636.25	392.91	19.04	98.23	487.78	9.23	0.44	2.31
6	Q6	6	1444.22	23670.82	498.26	24.73	117.26	385.65	7.81	0.39	1.89
7	Q7	7	470.52	8656.84	165.61	7.46	48.63	453.19	8.33	0.36	2.47

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG / L) T S S	CONCENTRATION (MG / L) TOT.NITRO.	CONCENTRATION (MG / L) DIS. PHOS.	CONCENTRATION (MG / L) TOT. PHOS.
1	Q1	1	52.27	655.41	14.44	0.76	4.08	60.71	1.28	0.06	0.37
2	Q2	2	60.39	1322.87	26.60	1.26	7.28	95.41	1.89	0.09	0.52
3	Q3	3	53.86	1243.28	22.29	1.06	6.44	98.44	1.75	0.06	0.51
4	Q4	4	38.88	471.61	9.53	0.59	2.47	54.57	1.07	0.06	0.28
5	Q5	5	55.93	1491.72	28.50	1.39	7.11	109.96	2.09	0.10	0.52
6	Q6	6	81.47	1714.27	35.65	1.82	8.53	89.22	1.84	0.09	0.44
7	Q7	7	26.58	640.81	12.08	0.55	3.53	103.08	1.92	0.09	0.57

TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	198.46	1854.65	42.63	2.35	11.76	65.42	1.38	0.07	0.40
2	Q2	2	226.91	3718.56	76.07	[illegible]	20.62	100.91	2.01	0.09	0.55
3	Q3	3	201.01	3472.59	62.98	3.04	18.07	103.71	1.85	0.09	0.54
4	Q4	4	146.51	1329.09	27.81	1.77	7.09	58.16	1.14	0.07	0.30
5	Q5	5	207.73	4172.83	80.11	[illegible]	19.95	115.00	2.19	0.11	0.55
6	Q6	6	304.93	4314.64	101.45	5.26	24.14	93.88	1.94	0.10	0.47
7	Q7	7	99.41	1794.86	34.26	1.59	9.94	108.69	2.03	0.09	0.60

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	18655.	174337.	4007.	221.	1105.	65.42	1.38	0.07	0.40
2	Q2	2	21330.	349546.	7151.	[illegible]	1939.	100.91	2.01	0.09	0.55
3	Q3	3	18895.	326425.	5920.	286.	1699.	103.71	1.85	0.09	0.54
4	Q4	4	13772.	124841.	2614.	166.	666.	58.16	1.14	0.07	0.30
5	Q5	5	19526.	392247.	7530.	[illegible]	1875.	115.00	2.19	0.11	0.55
6	Q6	6	28663.	452579.	9536.	[illegible]	2269.	93.88	1.94	0.10	0.47
7	Q7	7	9344.	168719.	3220.	149.	935.	108.69	2.03	0.09	0.60

TABLE

POLITICAL SEGMENTS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	1032.65	8709.40	190.70	10.26	53.90	318.19	6.26	0.28	1.89
2	Q2	2	1166.78	17684.77	353.08	16.59	96.95	442.43	8.55	0.38	2.39
3	Q3	3	1025.39	16798.74	299.14	14.13	86.70	457.68	8.00	0.37	2.34
4	Q4	4	755.90	6317.16	126.17	7.80	32.87	264.96	4.90	0.28	1.33
5	Q5	5	1053.67	20083.91	382.68	18.56	95.65	489.75	9.26	0.44	2.32
6	Q6	6	1560.69	22939.65	474.15	24.09	113.76	402.61	8.13	0.40	1.97
7	Q7	7	508.40	8621.59	161.45	7.30	47.36	475.59	8.72	0.38	2.59

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	57.95	661.05	14.76	0.79	4.14	52.90	1.13	0.06	0.32
2	Q2	2	66.47	1333.40	26.96	1.28	7.35	83.76	1.67	0.08	0.46
3	Q3	3	59.00	1254.24	22.56	1.08	6.50	86.41	1.54	0.07	0.45
4	Q4	4	42.88	476.22	9.73	0.61	2.51	47.74	0.94	0.06	0.25
5	Q5	5	61.07	1504.20	28.78	1.40	7.18	97.09	1.85	0.09	0.46
6	Q6	6	89.43	1727.88	36.03	1.05	8.62	78.55	1.62	0.08	0.39
7	Q7	7	29.16	646.39	12.23	0.56	3.57	90.57	1.70	0.08	0.50

TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	212.44	1838.25	42.78	2.39	11.72	58.54	1.25	0.06	0.36
2	Q2	2	242.82	3679.00	75.65	3.67	20.45	92.70	1.85	0.09	0.51
3	Q3	3	215.05	3433.84	62.49	3.03	17.90	96.61	1.72	0.08	0.50
4	Q4	4	156.80	1315.19	27.83	1.78	7.06	53.25	1.05	0.06	0.28
5	Q5	5	222.21	4125.16	79.31	3.89	19.74	107.34	2.05	0.10	0.51
6	Q6	6	326.27	4762.43	100.75	5.25	23.93	86.75	1.79	0.09	0.43
7	Q7	7	106.36	1775.04	34.00	1.58	9.85	100.75	1.89	0.09	0.55

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	17420.	150736.	3508.	106.	961.	58.54	1.25	0.06	0.36
2	Q2	2	19911.	301678.	6203.	301.	1677.	92.70	1.85	0.09	0.51
3	Q3	3	17634.	281575.	5124.	219.	1467.	96.61	1.72	0.08	0.50
4	Q4	4	12858.	107846.	2282.	1[illegible].	579.	53.25	1.05	0.06	0.28
5	Q5	5	18221.	338264.	6503.	319.	1618.	107.34	2.05	0.10	0.51
6	Q6	6	26754.	390521.	8261.	430.	1962.	86.75	1.79	0.09	0.43
7	Q7	7	8722.	145553.	2788.	130.	808.	100.75	1.89	0.09	0.55

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	1102.06	8783.38	194.38	10.59	54.60	268.89	5.32	0.24	1.60
2	Q2	2	1245.55	17765.89	356.15	16.83	97.57	384.93	7.46	0.33	2.08
3	Q3	3	1094.81	16749.05	299.05	14.18	86.54	408.32	7.15	0.33	2.09
4	Q4	4	806.87	6334.08	127.67	7.97	33.11	230.16	4.28	0.24	1.16
5	Q5	5	1125.16	20085.65	383.04	18.60	95.69	436.81	8.26	0.40	2.07
6	Q6	6	1066.23	23031.39	477.51	24.36	114.40	352.95	7.14	0.35	1.73
7	Q7	7	542.79	8623.66	161.96	7.25	47.43	420.12	7.71	0.34	2.29

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	53.00	519.84	11.85	0.65	3.28	47.32	1.02	0.05	0.29
2	Q2	2	60.91	1048.07	21.36	1.03	5.80	77.13	1.54	0.07	0.42
3	Q3	3	54.14	992.90	17.95	0.86	5.16	81.35	1.45	0.07	0.42
4	Q4	4	39.27	375.91	7.81	0.49	2.00	43.94	0.87	0.05	0.23
5	Q5	5	56.08	1186.23	22.75	1.11	5.67	91.31	1.74	0.08	0.44
6	Q6	6	82.01	1358.33	28.54	1.48	6.80	72.81	1.51	0.08	0.36
7	Q7	7	26.75	509.96	9.70	0.45	2.82	84.55	1.59	0.07	0.47

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TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	230.93	1712.14	40.95	2.35	11.05	51.56	1.12	0.06	0.32
2	Q2	2	263.75	3410.31	70.95	3.49	19.06	81.70	1.64	0.08	0.45
3	Q3	3	233.48	3171.42	58.17	2.65	16.59	84.33	1.51	0.07	0.44
4	Q4	4	170.35	1220.74	26.45	1.73	6.63	46.69	0.94	0.06	0.24
5	Q5	5	241.16	3811.74	73.53	3.62	18.27	94.27	1.80	0.09	0.45
6	Q6	6	354.29	4412.00	94.18	4.96	22.28	76.52	1.59	0.08	0.38
7	Q7	7	115.49	1641.66	31.72	1.50	9.14	88.33	1.67	0.08	0.49

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	17089.	126699.	3030.	174.	818.	51.56	1.12	0.06	0.32
2	Q2	2	19518.	252364.	5250.	249.	1411.	81.70	1.64	0.08	0.45
3	Q3	3	17277.	234686.	4304.	211.	1227.	84.33	1.51	0.07	0.44
4	Q4	4	12606.	90335.	1957.	128.	491.	46.69	0.94	0.06	0.24
5	Q5	5	17846.	282070.	5441.	208.	1352.	94.27	1.80	0.09	0.45
6	Q6	6	26217.	326488.	6959.	367.	1649.	76.52	1.59	0.08	0.38
7	Q7	7	8546.	121483.	2347.	111.	677.	88.33	1.67	0.08	0.49

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	57.59	512.86	11.87	0.66	3.26	56.17	1.19	0.06	0.34
2	Q2	2	66.09	1027.66	21.08	1.02	5.71	83.43	1.66	0.08	0.46
3	Q3	3	58.69	960.42	17.45	0.84	5.00	84.18	1.50	0.07	0.43
4	Q4	4	42.63	367.38	7.74	0.49	1.97	48.37	0.96	0.06	0.25
5	Q5	5	60.75	1153.49	22.16	1.09	5.52	92.77	1.77	0.09	0.44
6	Q6	6	88.94	1330.53	28.10	1.46	6.68	76.90	1.59	0.08	0.38
7	Q7	7	29.00	496.25	9.49	0.44	2.75	88.70	1.66	0.08	0.49

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	1027.31	7641.48	172.97	9.63	47.98	208.29	4.13	0.19	1.24
2	Q2	2	1161.22	15422.32	311.98	14.92	85.06	307.29	5.96	0.27	1.66
3	Q3	3	1020.77	14567.59	261.54	12.49	75.45	320.10	5.61	0.26	1.64
4	Q4	4	752.21	5512.42	113.16	7.17	29.08	179.28	3.34	0.19	0.90
5	Q5	5	1049.13	17439.75	333.39	16.24	83.19	350.27	6.63	0.32	1.66
6	Q6	6	1553.50	19989.32	417.33	21.47	99.67	284.07	5.75	0.28	1.39
7	Q7	7	506.07	7491.86	141.58	6.49	41.32	332.62	6.11	0.27	1.81

TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE•IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG / L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	176.92	1875.47	42.29	2.28	11.79	73.87	1.54	0.08	0.45
2	Q2	2	202.79	3768.03	76.49	3.65	20.82	114.96	2.27	0.10	0.63
3	Q3	3	179.94	3516.58	63.45	3.04	18.26	119.23	2.11	0.10	0.61
4	Q4	4	130.85	1343.12	27.68	1.74	7.11	66.44	1.29	0.08	0.34
5	Q5	5	186.17	4229.66	81.02	3.95	20.20	131.20	2.50	0.12	0.62
6	Q6	6	272.77	4879.68	102.21	5.26	24.38	106.91	2.20	0.11	0.53
7	Q7	7	88.94	1818.37	34.51	1.59	10.05	124.44	2.32	0.10	0.68

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE•IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG / L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	14694.	155664.	3510.	190.	979.	73.87	1.54	0.08	0.45
2	Q2	2	16832.	312747.	6349.	303.	1728.	114.96	2.27	0.10	0.63
3	Q3	3	14935.	291878.	5267.	253.	1515.	119.23	2.11	0.10	0.61
4	Q4	4	10860.	111479.	2297.	144.	590.	66.44	1.29	0.08	0.34
5	Q5	5	15452.	351062.	6725.	326.	1676.	131.20	2.50	0.12	0.62
6	Q6	6	22640.	405014.	8483.	437.	2024.	106.91	2.20	0.11	0.53
7	Q7	7	7382.	150924.	2865.	132.	834.	124.44	2.32	0.10	0.68

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	47.04	508.30	11.42	0.61	3.19	64.68	1.34	0.07	0.39
2	Q2	2	54.24	1023.23	20.74	0.99	5.65	94.60	1.87	0.09	0.52
3	Q3	3	48.31	957.62	17.26	0.83	4.97	95.65	1.70	0.08	0.49
4	Q4	4	34.94	365.02	7.50	0.47	1.93	55.25	1.07	0.06	0.28
5	Q5	5	50.13	1150.80	22.03	1.07	5.49	104.54	1.99	0.10	0.50
6	Q6	6	73.12	1325.45	27.73	1.43	6.62	86.81	1.78	0.09	0.43
7	Q7	7	23.85	494.66	9.38	0.43	2.73	100.60	1.87	0.08	0.55

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE-IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	1003.63	9378.86	211.74	11.55	58.93	291.14	5.74	0.26	1.73
2	Q2	2	1133.73	18718.16	379.63	18.15	103.39	407.98	7.89	0.35	2.21
3	Q3	3	996.27	17116.52	308.52	14.79	88.82	424.16	7.42	0.34	2.17
4	Q4	4	734.56	6618.71	136.40	8.59	35.03	244.59	4.53	0.26	1.23
5	Q5	5	1023.66	20763.13	397.53	19.39	99.12	451.01	8.53	0.41	2.14
6	Q6	6	1516.45	24209.55	506.66	26.09	120.90	371.11	7.50	0.37	1.82
7	Q7	7	493.98	8928.34	169.30	7.78	49.32	439.67	8.07	0.35	2.39

TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	223.51	1694.27	40.33	2.31	10.91	61.82	1.33	0.07	0.38
2	Q2	2	255.90	3379.34	70.15	3.45	18.87	98.43	1.97	0.09	0.54
3	Q3	3	226.89	3149.70	57.68	2.82	16.46	102.11	1.82	0.09	0.53
4	Q4	4	165.17	1210.07	26.10	1.70	6.56	56.34	1.12	0.07	0.29
5	Q5	5	234.63	3782.86	72.93	3.59	18.13	113.80	2.17	0.11	0.54
6	Q6	6	344.07	4372.82	93.19	4.90	22.06	92.19	1.91	0.10	0.46
7	Q7	7	112.18	1628.89	31.42	1.48	9.06	106.77	2.00	0.09	0.59

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	16316.	123681.	2944.	168.	796.	61.82	1.33	0.07	0.38
2	Q2	2	18681.	246692.	5121.	252.	1378.	98.43	1.97	0.09	0.54
3	Q3	3	16563.	229929.	4211.	206.	1202.	102.11	1.82	0.09	0.53
4	Q4	4	12057.	88335.	1906.	124.	479.	56.34	1.12	0.07	0.29
5	Q5	5	17128.	276150.	5324.	262.	1323.	113.80	2.17	0.11	0.54
6	Q6	6	25117.	319218.	6803.	358.	1610.	92.19	1.91	0.10	0.46
7	Q7	7	8189.	118909.	2294.	108.	662.	106.77	2.00	0.09	0.59

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	76.31	668.03	15.50	0.86	4.25	67.44	1.42	0.07	0.41
2	Q2	2	87.57	1342.45	27.56	1.34	7.46	98.61	1.96	0.09	0.54
3	Q3	3	77.76	1265.95	23.01	1.11	6.59	99.72	1.78	0.08	0.51
4	Q4	4	56.49	481.61	10.16	0.65	2.58	57.61	1.13	0.07	0.30
5	Q5	5	80.49	1514.73	29.11	1.43	7.25	109.18	2.08	0.10	0.52
6	Q6	6	117.84	1739.06	36.75	1.91	8.73	90.56	1.87	0.09	0.45
7	Q7	7	38.43	651.58	12.47	0.58	3.61	104.91	1.96	0.09	0.58

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	919.43	7594.42	162.61	8.59	46.52	273.46	5.40	0.25	1.62
2	Q2	2	1040.29	15434.70	305.37	14.19	84.26	404.78	7.82	0.35	2.19
3	Q3	3	915.07	14602.72	258.54	12.12	75.18	423.50	7.40	0.34	2.17
4	Q4	4	673.69	5493.89	107.72	6.57	28.32	237.04	4.39	0.25	1.19
5	Q5	5	940.95	17504.21	332.61	16.08	83.23	461.40	8.72	0.42	2.19
6	Q6	6	1392.25	20021.41	410.94	20.71	98.90	373.99	7.55	0.37	1.83
7	Q7	7	453.57	7508.21	139.70	6.25	41.13	439.52	8.06	0.35	2.39

TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	274.13	2279.71	53.45	3.01	14.58	70.31	1.48	0.07	0.43
2	Q2	2	312.40	4558.44	94.02	4.58	25.38	108.54	2.16	0.10	0.59
3	Q3	3	276.13	4252.82	77.55	3.77	22.18	112.38	2.00	0.09	0.58
4	Q4	4	201.90	1630.49	34.72	2.24	8.78	62.81	1.23	0.07	0.32
5	Q5	5	284.92	5108.64	98.30	4.82	24.45	123.87	2.36	0.11	0.59
6	Q6	6	419.28	5900.19	125.12	6.54	29.68	100.90	2.08	0.11	0.50
7	Q7	7	136.65	2198.72	42.22	1.97	12.21	117.36	2.19	0.10	0.64

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	27413.	227971.	5345.	301.	1458.	70.31	1.48	0.07	0.43
2	Q2	2	31240.	455847.	9402.	458.	2538.	108.54	2.16	0.10	0.59
3	Q3	3	27613.	425282.	7755.	377.	2218.	112.38	2.00	0.09	0.58
4	Q4	4	20190.	163049.	3472.	224.	878.	62.81	1.23	0.07	0.32
5	Q5	5	28492.	510864.	9830.	482.	2445.	123.87	2.36	0.11	0.59
6	Q6	6	41928.	590023.	12512.	654.	2968.	100.90	2.08	0.11	0.50
7	Q7	7	13665.	219872.	4222.	197.	1221.	117.36	2.19	0.10	0.64

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	1235.69	10197.33	226.83	12.36	63.57	321.63	6.32	0.29	1.91
2	Q2	2	1396.22	20585.41	413.85	19.61	113.21	441.29	8.52	0.38	2.38
3	Q3	3	1227.02	19329.97	345.86	16.44	99.97	448.60	7.84	0.36	2.30
4	Q4	4	904.54	7333.51	148.58	9.29	38.44	263.01	4.85	0.27	1.32
5	Q5	5	1260.86	23211.62	443.06	21.54	110.63	480.87	9.09	0.44	2.28
6	Q6	6	1867.60	26677.04	554.37	28.35	132.68	400.00	8.07	0.40	1.96
7	Q7	7	608.37	9968.85	187.64	8.54	54.88	469.10	8.59	0.37	2.55

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	86.96	724.32	16.98	0.96	4.63	49.22	1.06	0.05	0.30
2	Q2	2	99.06	1449.11	29.89	1.46	8.07	79.90	1.60	0.07	0.44
3	Q3	3	87.53	1352.87	24.67	1.20	7.06	83.94	1.50	0.07	0.43
4	Q4	4	64.03	518.52	11.04	0.71	2.79	45.52	0.91	0.06	0.24
5	Q5	5	90.29	1624.92	31.27	1.53	7.78	94.38	1.80	0.09	0.45
6	Q6	6	132.92	1875.80	39.77	2.08	9.44	75.39	1.56	0.08	0.37
7	Q7	7	43.32	699.35	13.43	0.63	3.88	87.41	1.64	0.07	0.48

TABLE

DRAINAGE SEGMENTS

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***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	253.31	1571.58	38.99	2.32	10.31	45.92	1.01	0.05	0.29
2	Q2	2	288.68	3115.85	65.85	3.31	17.55	71.56	1.45	0.07	0.39
3	Q3	3	255.17	2893.43	53.72	2.67	15.23	74.53	1.34	0.06	0.39
4	Q4	4	186.57	1119.52	25.03	1.67	6.18	41.24	0.84	0.05	0.22
5	Q5	5	263.29	3478.24	67.41	3.33	16.71	82.95	1.59	0.08	0.40
6	Q6	6	387.44	4029.05	87.07	4.65	20.48	66.94	1.40	0.07	0.33
7	Q7	7	126.28	1499.71	29.31	1.40	8.39	77.70	1.47	0.07	0.43

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	21784.	135156.	3353.	199.	887.	45.92	1.01	0.05	0.29
2	Q2	2	24826.	267963.	5663.	284.	1509.	71.56	1.45	0.07	0.39
3	Q3	3	21944.	249265.	4620.	270.	1310.	74.53	1.34	0.06	0.39
4	Q4	4	16045.	96278.	2152.	144.	532.	41.24	0.84	0.05	0.22
5	Q5	5	22643.	299129.	5797.	287.	1437.	82.95	1.59	0.08	0.40
6	Q6	6	33320.	346500.	7488.	400.	1762.	66.94	1.40	0.07	0.33
7	Q7	7	10860.	128975.	2521.	121.	722.	77.70	1.47	0.07	0.43

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	1156.82	8090.04	184.40	10.37	50.94	253.10	5.00	0.23	1.50
2	Q2	2	1308.47	16292.50	330.50	15.87	89.96	340.14	6.59	0.30	1.84
3	Q3	3	1150.72	15272.11	274.91	13.18	79.19	346.59	6.07	0.28	1.78
4	Q4	4	847.44	5813.99	120.23	7.67	30.77	203.65	3.78	0.22	1.03
5	Q5	5	1183.06	18346.10	351.05	17.12	87.55	372.29	7.05	0.34	1.77
6	Q6	6	1750.94	21108.11	441.63	22.79	105.37	308.08	6.23	0.31	1.51
7	Q7	7	570.41	7884.16	149.36	6.87	43.52	361.78	6.65	0.29	1.97

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	78.57	520.84	12.75	0.75	3.40	37.49	0.84	0.05	0.24
2	Q2	2	89.42	1037.04	21.78	1.09	5.82	61.12	1.24	0.06	0.34
3	Q3	3	78.98	973.67	17.96	0.69	5.11	64.53	1.17	0.06	0.34
4	Q4	4	57.81	373.21	8.24	0.55	2.05	34.84	0.72	0.05	0.18
5	Q5	5	81.44	1164.23	22.52	1.11	5.59	72.63	1.39	0.07	0.35
6	Q6	6	119.96	1341.92	28.86	1.53	6.80	57.81	1.21	0.06	0.29
7	Q7	7	39.10	501.66	9.76	0.46	2.80	67.05	1.28	0.06	0.37

TABLE

DRAINAGE SEGMENTS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	208.90	1991.82	45.68	2.51	12.61	53.13	1.13	0.06	0.33
2	Q2	2	238.00	3998.15	81.71	3.94	22.17	84.21	1.67	0.08	0.46
3	Q3	3	210.32	3742.01	67.81	3.27	19.47	86.95	1.55	0.07	0.45
4	Q4	4	153.83	1428.83	29.86	1.89	7.62	48.03	0.95	0.06	0.25
5	Q5	5	216.98	4492.94	86.23	4.22	21.48	97.39	1.86	0.09	0.46
6	Q6	6	319.38	5177.58	109.01	5.65	25.94	78.91	1.63	0.08	0.39
7	Q7	7	104.09	1932.36	36.85	1.71	10.70	91.08	1.70	0.08	0.50

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	22353.	213124.	4897.	269.	1350.	53.13	1.13	0.06	0.33
2	Q2	2	25466.	427804.	8743.	421.	2372.	84.21	1.67	0.08	0.46
3	Q3	3	22504.	400395.	7256.	350.	2083.	86.95	1.55	0.07	0.45
4	Q4	4	16459.	152885.	3195.	203.	815.	48.03	0.95	0.06	0.25
5	Q5	5	23217.	480747.	9226.	451.	2298.	97.39	1.86	0.09	0.46
6	Q6	6	34173.	554004.	11665.	604.	2776.	78.91	1.63	0.08	0.39
7	Q7	7	11138.	206762.	3943.	182.	1145.	91.08	1.70	0.08	0.50

TABLE

POLITICAL SEGMENTS

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***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	1157.48	10211.02	229.39	12.52	63.98	243.64	4.86	0.23	1.45
2	Q2	2	1307.62	20579.83	416.05	19.83	113.49	355.15	6.91	0.31	1.92
3	Q3	3	1149.03	19299.33	346.93	16.58	100.02	365.83	6.42	0.30	1.88
4	Q4	4	847.18	7340.74	150.34	9.44	38.71	206.95	3.88	0.22	1.05
5	Q5	5	1180.63	23180.93	443.32	21.60	110.60	402.27	7.62	0.37	1.91
6	Q6	6	1748.97	26664.39	556.59	28.59	132.96	327.91	6.65	0.33	1.61
7	Q7	7	569.72	9960.75	188.36	8.62	54.95	381.93	7.04	0.31	2.08

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	56.69	581.86	13.19	0.72	3.67	47.63	1.01	0.05	0.29
2	Q2	2	64.76	1173.82	23.87	1.14	6.49	74.80	1.49	0.07	0.41
3	Q3	3	57.34	1109.47	20.03	0.96	5.76	77.41	1.38	0.06	0.40
4	Q4	4	41.83	420.55	8.70	0.55	2.23	42.69	0.84	0.05	0.22
5	Q5	5	59.23	1327.33	25.44	1.24	6.34	86.99	1.66	0.08	0.41
6	Q6	6	87.00	1521.29	31.91	1.65	7.61	70.15	1.45	0.07	0.35
7	Q7	7	28.36	570.56	10.84	0.50	3.15	81.00	1.51	0.07	0.44

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TABLE

DRAINAGE SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR <u>MEAN DISCHARGES</u> *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE•IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	158.67	1897.40	42.11	2.23	11.85	84.77	1.74	0.08	0.51
2	Q2	2	181.90	3819.08	77.03	3.65	21.04	122.66	2.41	0.11	0.67
3	Q3	3	161.41	3563.85	64.04	3.05	18.47	122.63	2.17	0.10	0.63
4	Q4	4	117.36	1359.29	27.64	1.71	7.15	71.63	1.37	0.08	0.37
5	Q5	5	167.01	4288.93	82.01	3.99	20.46	133.66	2.54	0.12	0.64
6	Q6	6	244.68	4946.71	103.11	5.28	24.65	112.09	2.29	0.11	0.55
7	Q7	7	79.78	1843.05	34.82	1.59	10.17	129.50	2.40	0.11	0.71

***** VALUES OF LOADS AND CONCENTRATIONS FOR <u>TOTAL DISCHARGES</u> *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE•IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	14122.	168869.	3748.	1[illegible]9.	1054.	84.77	1.74	0.08	0.51
2	Q2	2	16189.	339698.	6856.	325.	1873.	122.66	2.41	0.11	0.67
3	Q3	3	14366.	317183.	5700.	272.	1644.	122.63	2.17	0.10	0.63
4	Q4	4	10445.	120976.	2460.	1[illegible]3.	636.	71.63	1.37	0.08	0.37
5	Q5	5	14864.	381716.	7299.	3[illegible]5.	1821.	133.66	2.54	0.12	0.64
6	Q6	6	21777.	440257.	9176.	470.	2194.	112.09	2.29	0.11	0.55
7	Q7	7	7100.	164031.	3099.	141.	905.	129.50	2.40	0.11	0.71

TABLE

POLITICAL SEGMENTS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	880.64	9967.22	218.19	11.49	61.81	383.19	7.50	0.34	2.27
2	Q2	2	997.12	20114.21	402.86	18.94	110.46	482.18	9.30	0.41	2.60
3	Q3	3	877.55	18792.53	335.78	15.91	97.15	474.29	8.28	0.38	2.43
4	Q4	4	645.60	7149.52	143.35	8.81	37.33	294.85	5.43	0.31	1.48
5	Q5	5	902.69	22621.37	431.54	20.96	107.79	492.87	9.32	0.45	2.34
6	Q6	6	1334.88	26061.19	540.17	27.49	129.46	425.49	8.58	0.42	2.08
7	Q7	7	434.90	9715.00	182.51	8.27	53.45	499.62	9.15	0.40	2.72

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	54.63	712.54	15.65	0.82	4.43	72.36	1.49	0.07	0.44
2	Q2	2	62.70	1439.90	28.92	1.36	7.92	102.83	2.02	0.09	0.56
3	Q3	3	55.67	1353.51	24.25	1.15	7.01	101.77	1.80	0.08	0.52
4	Q4	4	40.44	513.40	10.34	0.64	2.69	60.04	1.15	0.07	0.31
5	Q5	5	57.63	1624.68	31.03	1.51	7.75	111.33	2.12	0.10	0.53
6	Q6	6	84.37	1866.19	38.77	1.98	9.28	93.77	1.92	0.10	0.46
7	Q7	7	27.51	697.85	13.14	0.60	3.84	107.89	2.00	0.09	0.59

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	196.68	3047.42	59.78	2.72	19.25	108.20	2.04	0.09	0.67
2	Q2	2	212.15	4019.10	77.62	3.52	22.49	128.75	2.43	0.11	0.71
3	Q3	3	182.87	3282.45	57.79	2.73	16.85	124.18	2.15	0.10	0.63
4	Q4	4	134.94	1533.13	30.89	1.82	8.36	77.28	1.50	0.08	0.41
5	Q5	5	180.81	3612.99	68.59	3.34	17.21	132.65	2.50	0.12	0.63
6	Q6	6	264.62	4208.32	87.80	4.53	20.96	106.65	2.18	0.11	0.52
7	Q7	7	85.77	1540.35	29.32	1.36	8.47	122.75	2.29	0.10	0.67

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	7670.	118850.	2331.	106.	751.	108.20	2.04	0.09	0.67
2	Q2	2	8274.	156746.	3027.	137.	877.	128.75	2.43	0.11	0.71
3	Q3	3	7132.	128016.	2254.	106.	657.	124.18	2.15	0.10	0.63
4	Q4	4	5263.	59792.	1205.	71.	326.	77.28	1.50	0.08	0.41
5	Q5	5	7052.	140907.	2675.	130.	671.	132.65	2.50	0.12	0.63
6	Q6	6	10320.	164125.	3424.	177.	817.	106.65	2.18	0.11	0.52
7	Q7	7	3345.	60074.	1143.	53.	330.	122.75	2.29	0.10	0.67

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	898.46	15598.86	296.77	12.95	97.44	475.39	8.72	0.36	2.93
2	Q2	2	961.14	20591.26	390.46	17.28	114.33	567.76	10.56	0.45	3.13
3	Q3	3	822.80	16665.55	289.19	13.40	85.03	569.34	9.75	0.44	2.89
4	Q4	4	612.96	7843.28	153.02	8.77	42.14	338.00	6.35	0.35	1.79
5	Q5	5	809.25	18483.26	348.53	16.84	87.71	593.53	11.12	0.53	2.81
6	Q6	6	1197.32	21584.85	442.16	22.33	106.42	466.06	9.36	0.46	2.27
7	Q7	7	387.81	7870.58	147.14	6.65	42.95	548.37	10.07	0.44	2.97

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1964

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	67.56	1155.18	22.49	1.01	7.28	121.16	2.27	0.10	0.75
2	Q2	2	72.94	1530.76	29.44	1.33	8.55	138.45	2.61	0.11	0.77
3	Q3	3	62.92	1282.03	22.48	1.06	6.57	131.60	2.27	0.10	0.67
4	Q4	4	46.38	581.19	11.62	0.68	3.16	83.89	1.61	0.09	0.45
5	Q5	5	62.24	1390.29	26.35	1.28	6.62	137.69	2.59	0.12	0.65
6	Q6	6	90.99	1595.36	33.15	1.70	7.93	113.83	2.32	0.12	0.56
7	Q7	7	29.50	591.40	11.21	0.52	3.25	131.40	2.44	0.11	0.72

TABLE

FUTURE CONDITIONS

VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	173.14	3235.75	62.65	2.79	20.35	99.20	1.87	0.08	0.62
2	Q2	2	187.15	4275.89	81.94	3.68	23.85	115.57	2.19	0.10	0.64
3	Q3	3	161.61	3490.76	61.10	2.86	17.88	108.75	1.88	0.09	0.55
4	Q4	4	118.96	1629.48	32.37	1.88	8.83	69.91	1.35	0.08	0.37
5	Q5	5	160.00	3845.69	72.80	3.54	18.29	116.06	2.19	0.11	0.55
6	Q6	6	233.52	4477.44	92.69	4.74	22.20	95.72	1.96	0.10	0.47
7	Q7	7	75.71	1638.40	30.95	1.42	8.98	109.32	2.04	0.09	0.60

VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	12986.	242682.	4699.	209.	1526.	99.20	1.87	0.08	0.62
2	Q2	2	14037.	320692.	6146.	276.	1789.	115.57	2.19	0.10	0.64
3	Q3	3	12121.	261808.	4583.	215.	1341.	108.75	1.88	0.09	0.55
4	Q4	4	8922.	122211.	2428.	141.	662.	69.91	1.35	0.08	0.37
5	Q5	5	12000.	288428.	5460.	265.	1372.	116.06	2.19	0.11	0.55
6	Q6	6	17514.	335810.	6952.	355.	1665.	95.72	1.96	0.10	0.47
7	Q7	7	5678.	122880.	2321.	106.	674.	109.32	2.04	0.09	0.60

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	796.97	15471.46	295.16	12.89	96.79	341.83	6.28	0.26	2.11
2	Q2	2	854.13	20482.70	388.99	17.24	113.80	388.91	7.24	0.31	2.14
3	Q3	3	732.33	16733.66	290.72	13.48	85.43	375.64	6.44	0.29	1.91
4	Q4	4	544.40	7794.91	152.44	8.74	41.93	235.07	4.43	0.24	1.24
5	Q5	5	721.12	18442.51	347.97	16.82	87.55	388.40	7.28	0.35	1.84
6	Q6	6	1064.33	21444.10	439.95	22.25	105.82	318.34	6.41	0.32	1.55
7	Q7	7	344.80	7849.54	146.97	6.65	42.86	370.89	6.82	0.30	2.01

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1965

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	53.82	939.63	18.26	0.82	5.92	79.81	1.51	0.06	0.50
2	Q2	2	58.37	1240.70	23.82	1.07	6.93	91.96	1.74	0.08	0.51
3	Q3	3	50.54	1006.95	17.65	0.83	5.16	85.33	1.48	0.07	0.44
4	Q4	4	37.06	473.44	9.44	0.55	2.57	55.86	1.08	0.06	0.30
5	Q5	5	50.14	1112.99	21.09	1.02	5.29	91.22	1.72	0.08	0.43
6	Q6	6	72.86	1300.76	26.98	1.38	6.46	76.19	1.56	0.08	0.38
7	Q7	7	23.63	474.47	8.98	0.41	2.60	86.59	1.62	0.07	0.47

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG / L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	241.58	4051.36	79.08	3.57	25.56	96.09	1.83	0.08	0.60
2	Q2	2	260.24	5352.50	103.05	4.65	29.91	115.55	2.19	0.10	0.64
3	Q3	3	224.09	4371.39	76.78	3.62	22.42	110.08	1.91	0.09	0.56
4	Q4	4	165.60	2040.92	40.89	2.40	11.11	69.38	1.35	0.08	0.37
5	Q5	5	221.37	4812.95	91.26	4.44	22.91	119.49	2.25	0.11	0.57
6	Q6	6	324.54	5604.50	116.57	5.99	27.87	96.24	1.97	0.10	0.47
7	Q7	7	105.19	2051.33	38.92	1.80	11.27	109.72	2.05	0.09	0.60

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG / L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	17635.	295750.	5773.	261.	1866.	96.09	1.83	0.08	0.60
2	Q2	2	18998.	390734.	7523.	340.	2184.	115.55	2.19	0.10	0.64
3	Q3	3	16358.	319113.	5605.	264.	1637.	110.08	1.91	0.09	0.56
4	Q4	4	12089.	148987.	2985.	175.	811.	69.38	1.35	0.08	0.37
5	Q5	5	16160.	351347.	6662.	324.	1672.	119.49	2.25	0.11	0.57
6	Q6	6	23691.	409130.	8510.	437.	2034.	96.24	1.97	0.10	0.47
7	Q7	7	7679.	149747.	2842.	131.	822.	109.72	2.05	0.09	0.60

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	1111.92	18236.02	346.27	15.08	113.86	401.60	7.40	0.30	2.48
2	Q2	2	1190.38	24179.19	457.83	20.22	134.16	482.68	9.00	0.39	2.66
3	Q3	3	1019.68	19920.19	345.25	15.97	101.59	473.14	8.11	0.37	2.40
4	Q4	4	758.98	9185.50	178.79	10.23	49.30	288.27	5.44	0.30	1.53
5	Q5	5	1003.35	21847.46	411.74	19.88	103.65	501.76	9.41	0.45	2.37
6	Q6	6	1483.06	25275.75	517.03	26.07	124.51	398.83	8.03	0.40	1.95
7	Q7	7	480.40	9290.31	173.44	7.82	50.66	462.58	8.51	0.37	2.51

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1966

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	62.09	1320.88	25.38	1.12	8.29	93.90	1.77	0.08	0.59
2	Q2	2	67.20	1749.86	33.38	1.49	9.74	110.80	2.09	0.09	0.61
3	Q3	3	58.09	1440.08	25.12	1.17	7.36	104.99	1.82	0.08	0.54
4	Q4	4	42.70	665.69	13.12	0.76	3.59	66.81	1.29	0.07	0.36
5	Q5	5	57.56	1579.03	29.85	1.45	7.50	.112.85	2.13	0.10	0.54
6	Q6	6	83.86	1829.99	37.71	1.92	9.05	91.96	1.88	0.09	0.45
7	Q7	7	27.19	672.06	12.64	0.58	3.68	105.02	1.96	0.09	0.57

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	233.59	3713.86	72.79	3.31	23.47	99.59	1.89	0.08	0.62
2	Q2	2	251.41	4907.72	94.71	4.29	27.46	116.69	2.21	0.10	0.65
3	Q3	3	216.33	4015.21	70.65	3.34	20.61	110.39	1.92	0.09	0.56
4	Q4	4	160.03	1871.41	37.65	2.22	10.20	70.47	1.37	0.08	0.38
5	Q5	5	213.59	4415.12	83.79	4.08	21.02	117.94	2.22	0.11	0.56
6	Q6	6	313.49	5137.25	107.10	5.52	25.58	96.64	1.98	0.10	0.48
7	Q7	7	101.60	1881.95	35.79	1.66	10.35	110.59	2.07	0.09	0.60

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	21958.	349104.	6842.	311.	2206.	99.59	1.89	0.08	0.62
2	Q2	2	23633.	461327.	8902.	403.	2581.	116.69	2.21	0.10	0.65
3	Q3	3	20335.	377432.	6641.	314.	1938.	110.39	1.92	0.09	0.56
4	Q4	4	15042.	175913.	3539.	208.	959.	70.47	1.37	0.08	0.38
5	Q5	5	20077.	415025.	7876.	384.	1976.	117.94	2.22	0.11	0.56
6	Q6	6	29468.	482902.	10068.	519.	2404.	96.64	1.98	0.10	0.48
7	Q7	7	9550.	176904.	3364.	156.	973.	110.59	2.07	0.09	0.60

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE*IN)	|<-----------L O A D (POUNDS)			---------->|	|<--C O N C E N T R A T I O N (M G / L)--->|		
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	1202.91	17675.65	336.77	14.78	110.48	443.08	8.12	0.33	2.73
2	Q2	2	1286.30	23476.38	445.22	19.73	130.34	504.88	9.38	0.40	2.78
3	Q3	3	1100.76	19496.43	338.14	15.66	99.45	487.15	8.34	0.38	2.47
4	Q4	4	820.44	8908.43	174.00	10.00	47.88	305.13	5.73	0.31	1.61
5	Q5	5	1082.33	21278.10	401.17	19.38	100.97	502.26	9.41	0.45	2.38
6	Q6	6	1602.27	24504.28	502.12	25.39	120.82	412.86	8.29	0.41	2.01
7	Q7	7	518.96	9043.95	169.06	7.64	49.35	481.55	8.84	0.39	2.61

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1967

NO	SEGMENT		DISCHARGE (ACRE*IN)	|<-----------L O A D (POUNDS)			---------->|	|<--C O N C E N T R A T I O N (M G / L)--->|		
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	68.40	1331.90	25.74	1.14	8.37	82.29	1.56	0.07	0.51
2	Q2	2	73.74	1764.32	33.77	1.51	9.84	97.47	1.85	0.08	0.54
3	Q3	3	63.54	1452.45	25.40	1.19	7.44	92.18	1.60	0.07	0.47
4	Q4	4	46.91	671.32	13.31	0.77	3.64	58.75	1.15	0.07	0.32
5	Q5	5	62.81	1592.26	30.13	1.46	7.57	99.66	1.88	0.09	0.47
6	Q6	6	91.97	1844.56	38.14	1.95	9.14	81.01	1.66	0.08	0.40
7	Q7	7	29.81	677.88	12.79	0.59	3.71	92.34	1.73	0.08	0.50

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	249.98	3675.07	72.46	3.32	23.27	91.40	1.74	0.08	0.57
2	Q2	2	269.01	4853.51	93.99	4.28	27.19	107.96	2.05	0.09	0.60
3	Q3	3	231.43	3969.88	70.03	3.32	20.40	103.19	1.79	0.08	0.53
4	Q4	4	171.23	1851.76	37.49	2.22	10.13	65.02	1.27	0.07	0.35
5	Q5	5	228.47	4364.49	82.93	4.05	20.80	110.19	2.08	0.10	0.52
6	Q6	6	335.42	5081.00	106.31	5.50	25.35	89.44	1.83	0.09	0.44
7	Q7	7	108.70	1861.02	35.51	1.65	10.25	102.63	1.92	0.09	0.56

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	20499.	301357.	5941.	272.	1908.	91.40	1.74	0.08	0.57
2	Q2	2	22058.	397990.	7707.	351.	2230.	107.96	2.05	0.09	0.60
3	Q3	3	18977.	325530.	5742.	272.	1673.	103.19	1.79	0.08	0.53
4	Q4	4	14041.	151845.	3074.	182.	830.	65.02	1.27	0.07	0.35
5	Q5	5	18735.	357889.	6800.	332.	1705.	110.19	2.08	0.10	0.52
6	Q6	6	27504.	416644.	8717.	451.	2078.	89.44	1.83	0.09	0.44
7	Q7	7	8913.	152604.	2912.	135.	840.	102.63	1.92	0.09	0.56

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	1284.08	17756.72	339.89	15.04	111.15	386.29	7.09	0.29	2.38
2	Q2	2	1373.30	23530.80	447.46	19.91	130.79	444.07	8.27	0.36	2.45
3	Q3	3	1175.36	19410.31	337.32	15.67	99.10	437.05	7.49	0.34	2.22
4	Q4	4	875.89	8942.24	175.55	10.15	48.17	267.13	5.03	0.28	1.41
5	Q5	5	1155.79	21265.53	401.31	19.41	100.96	448.75	8.41	0.40	2.12
6	Q6	6	1710.68	24592.43	505.30	25.64	121.43	362.79	7.29	0.36	1.77
7	Q7	7	554.08	9045.21	169.52	7.70	49.41	426.12	7.83	0.34	2.31

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1968

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD TOT.NITRO.	LOAD DIS. PHOS.	LOAD TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONC. TOT.NITRO.	CONC. DIS. PHOS.	CONC. TOT. PHOS.
1	Q1	1	62.67	1047.90	20.45	0.92	6.61	75.73	1.44	0.06	0.47
2	Q2	2	67.63	1388.81	26.73	1.21	7.76	90.62	1.72	0.08	0.50
3	Q3	3	58.33	1151.46	20.21	0.95	5.90	87.22	1.52	0.07	0.45
4	Q4	4	43.01	528.29	10.58	0.62	2.87	54.40	1.06	0.06	0.29
5	Q5	5	57.69	1256.13	23.81	1.16	5.98	93.87	1.77	0.09	0.45
6	Q6	6	84.37	1450.32	30.16	1.55	7.21	75.24	1.55	0.08	0.37
7	Q7	7	27.35	534.78	10.14	0.47	2.94	86.32	1.62	0.07	0.47

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	271.56	3407.19	68.09	3.18	21.68	80.33	1.54	0.07	0.50
2	Q2	2	292.10	4492.05	87.68	4.04	25.25	94.97	1.81	0.08	0.53
3	Q3	3	251.22	3663.45	65.02	3.11	18.88	89.93	1.57	0.07	0.46
4	Q4	4	185.96	1716.62	35.25	2.12	9.45	57.31	1.13	0.07	0.31
5	Q5	5	247.94	4031.91	76.83	3.76	19.24	96.73	1.83	0.09	0.46
6	Q6	6	364.19	4705.55	99.24	5.19	23.58	78.87	1.63	0.08	0.39
7	Q7	7	118.02	1720.88	33.09	1.56	9.51	90.01	1.69	0.08	0.49

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	20095.	252133.	5038.	235.	1605.	80.33	1.54	0.07	0.50
2	Q2	2	21616.	332414.	6488.	299.	1869.	94.97	1.81	0.08	0.53
3	Q3	3	18590.	271096.	4811.	230.	1397.	89.94	1.57	0.07	0.46
4	Q4	4	13761.	127030.	2608.	157.	699.	57.31	1.13	0.07	0.31
5	Q5	5	18348.	298361.	5685.	278.	1424.	96.73	1.83	0.09	0.46
6	Q6	6	26950.	348211.	7344.	384.	1745.	78.87	1.63	0.08	0.39
7	Q7	7	8734.	127345.	2448.	115.	703.	90.01	1.69	0.08	0.49

TABLE

FUTURE CONDITIONS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	1197.12	15411.12	298.15	13.41	96.86	304.74	5.61	0.23	1.88
2	Q2	2	1280.39	20426.54	390.75	17.53	113.82	354.89	8.61	0.28	1.90
3	Q3	3	1095.91	16889.02	294.72	13.77	86.38	341.99	5.86	0.27	1.74
4	Q4	4	816.61	7766.98	154.16	9.01	42.05	213.75	4.03	0.22	1.13
5	Q5	5	1077.70	18465.77	349.18	16.93	87.76	359.63	6.74	0.32	1.70
6	Q6	6	1594.97	21342.72	441.23	22.56	105.74	292.28	5.88	0.29	1.43
7	Q7	7	516.60	7857.40	148.08	6.78	43.02	338.11	6.22	0.27	1.83

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1969

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	68.00	1026.83	20.19	0.92	6.50	82.58	1.57	0.07	0.52
2	Q2	2	73.34	1356.47	26.22	1.19	7.59	95.41	1.81	0.08	0.53
3	Q3	3	63.21	1110.56	19.57	0.93	5.70	89.25	1.55	0.07	0.46
4	Q4	4	46.65	517.31	10.44	0.62	2.82	57.89	1.13	0.06	0.31
5	Q5	5	62.49	1220.51	23.18	1.13	5.81	95.02	1.79	0.09	0.45
6	Q6	6	91.47	1419.68	29.65	1.53	7.08	78.95	1.62	0.08	0.39
7	Q7	7	29.65	520.31	9.91	0.46	2.86	90.07	1.69	0.08	0.49

TABLE

FUTURE CONDITIONS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE*IN)	<-----LOAD (POUNDS)----->				<--CONCENTRATION (MG / L)--->			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	208.70	3762.65	73.08	3.27	23.70	113.66	2.14	0.09	0.71
2	Q2	2	224.92	4973.88	95.49	4.29	27.76	133.19	2.51	0.11	0.74
3	Q3	3	193.75	4065.98	71.26	3.35	20.84	127.09	2.20	0.10	0.65
4	Q4	4	143.10	1895.50	37.78	2.20	10.29	80.32	1.55	0.09	0.43
5	Q5	5	191.46	4475.25	84.77	4.12	21.29	134.57	2.53	0.12	0.64
6	Q6	6	280.52	5207.05	107.99	5.53	25.85	110.05	2.24	0.11	0.54
7	Q7	7	90.92	1906.75	36.08	1.66	10.46	126.57	2.36	0.11	0.69

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE*IN)	<-----LOAD (POUNDS)----->				<--CONCENTRATION (MG / L)--->			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	17322.	312301.	6066.	272.	1967.	113.66	2.14	0.09	0.71
2	Q2	2	18669.	412834.	7925.	356.	2304.	133.19	2.51	0.11	0.74
3	Q3	3	16081.	337477.	5915.	278.	1730.	127.09	2.20	0.10	0.65
4	Q4	4	11877.	157327.	3136.	183.	854.	80.32	1.55	0.09	0.43
5	Q5	5	15891.	371447.	7036.	342.	1767.	134.57	2.53	0.12	0.64
6	Q6	6	23283.	432186.	8963.	459.	2145.	110.05	2.24	0.11	0.54
7	Q7	7	7546.	158260.	2995.	138.	868.	126.57	2.36	0.11	0.69

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	1168.92	18652.54	361.97	16.25	117.41	409.76	7.51	0.31	2.53
2	Q2	2	1249.83	24567.38	471.23	21.19	137.07	465.96	8.67	0.37	2.57
3	Q3	3	1069.46	19716.71	345.23	16.20	101.00	451.43	7.73	0.35	2.29
4	Q4	4	797.20	9390.41	186.98	10.92	50.94	281.51	5.29	0.29	1.49
5	Q5	5	1051.48	21944.59	415.51	20.18	104.36	462.41	8.67	0.42	2.19
6	Q6	6	1556.81	25810.07	534.83	27.39	128.06	380.48	7.64	0.38	1.86
7	Q7	7	504.23	9361.05	176.98	8.13	51.33	445.04	8.17	0.36	2.41

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1970

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	55.78	1021.37	19.80	0.88	6.43	93.83	1.70	0.07	0.58
2	Q2	2	60.31	1351.99	25.93	1.16	7.54	107.94	2.04	0.09	0.60
3	Q3	3	52.09	1107.68	19.40	0.91	5.67	101.38	1.75	0.08	0.52
4	Q4	4	38.33	514.92	10.24	0.60	2.79	65.47	1.26	0.07	0.35
5	Q5	5	51.57	1217.81	23.06	1.12	5.79	107.06	2.02	0.10	0.51
6	Q6	6	75.25	1414.62	29.30	1.50	7.02	89.06	1.81	0.09	0.44
7	Q7	7	24.40	518.72	9.80	0.45	2.84	102.05	1.90	0.08	0.56

TABLE

FUTURE CONDITIONS

VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	263.39	3376.84	67.31	3.13	21.47	96.93	1.85	0.08	0.61
2	Q2	2	283.70	4454.51	86.82	3.99	25.03	114.61	2.18	0.10	0.64
3	Q3	3	244.26	3639.99	64.52	3.08	18.75	108.92	1.89	0.09	0.56
4	Q4	4	180.53	1701.36	34.85	2.09	9.35	69.06	1.35	0.08	0.37
5	Q5	5	241.27	4001.87	76.21	3.73	19.09	116.78	2.20	0.11	0.55
6	Q6	6	353.79	4664.41	98.23	5.13	23.35	95.05	1.95	0.10	0.47
7	Q7	7	114.66	1707.58	32.78	1.54	9.43	108.79	2.04	0.09	0.59

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	19228.	246511.	4914.	229.	1567.	96.93	1.85	0.08	0.61
2	Q2	2	20710.	325181.	6338.	291.	1827.	114.61	2.18	0.10	0.64
3	Q3	3	17831.	265720.	4710.	225.	1368.	108.92	1.89	0.09	0.56
4	Q4	4	13179.	124199.	2544.	152.	683.	69.06	1.35	0.08	0.37
5	Q5	5	17613.	292137.	5564.	272.	1394.	116.78	2.20	0.11	0.55
6	Q6	6	25826.	340503.	7171.	374.	1705.	95.05	1.95	0.10	0.47
7	Q7	7	8370.	124653.	2393.	112.	688.	108.79	2.04	0.09	0.59

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

				LOAD (POUNDS)				CONCENTRATION (MG/L)			
NO	SEGMENT		DISCHARGE (ACRE*IN)	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	1072.32	15430.76	290.84	12.57	96.05	402.50	7.38	0.30	2.48
2	Q2	2	1147.52	20474.06	385.95	16.95	113.38	468.09	8.70	0.37	2.58
3	Q3	3	982.63	16937.84	292.48	13.46	86.24	452.30	7.74	0.35	2.29
4	Q4	4	731.74	7767.66	150.05	8.53	41.53	281.65	5.29	0.29	1.49
5	Q5	5	966.65	18536.98	348.77	16.80	87.87	473.67	8.87	0.42	2.24
6	Q6	6	1429.57	21385.55	435.51	21.86	105.08	384.80	7.72	0.38	1.88
7	Q7	7	463.06	7876.63	146.40	6.56	42.87	446.61	8.19	0.36	2.42

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1971

				LOAD (POUNDS)				CONCENTRATION (MG/L)			
NO	SEGMENT		DISCHARGE (ACRE*IN)	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	90.11	1342.02	26.41	1.21	8.49	97.85	1.85	0.08	0.61
2	Q2	2	97.17	1776.41	34.36	1.56	9.95	112.57	2.13	0.09	0.62
3	Q3	3	83.75	1466.35	25.84	1.22	7.53	105.70	1.84	0.08	0.54
4	Q4	4	61.81	676.59	13.67	0.81	3.70	68.31	1.33	0.08	0.37
5	Q5	5	82.79	1603.53	30.45	1.49	7.64	111.83	2.11	0.10	0.53
6	Q6	6	121.20	1856.32	38.80	2.01	9.25	92.92	1.90	0.10	0.46
7	Q7	7	39.29	683.21	13.02	0.60	3.76	106.44	1.99	0.09	0.58

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	321.73	4552.39	90.08	4.15	28.87	107.24	2.03	0.09	0.67
2	Q2	2	345.66	6012.20	116.67	5.33	33.72	125.66	2.38	0.10	0.70
3	Q3	3	296.97	4916.04	86.86	4.12	25.28	119.77	2.08	0.10	0.61
4	Q4	4	220.14	2294.63	46.63	2.77	12.57	75.82	1.47	0.08	0.41
5	Q5	5	292.87	5404.82	102.77	5.02	25.76	127.07	2.40	0.12	0.60
6	Q6	6	430.88	6294.48	131.97	6.85	31.44	103.86	2.12	0.11	0.51
7	Q7	7	139.62	2305.13	44.07	2.06	12.70	119.37	2.23	0.10	0.65

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG / L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	32173.	455239.	9008.	415.	2887.	107.24	2.03	0.09	0.67
2	Q2	2	34566.	601224.	11667.	533.	3372.	125.66	2.38	0.10	0.70
3	Q3	3	29697.	491607.	8686.	412.	2528.	119.77	2.08	0.10	0.61
4	Q4	4	22014.	229463.	4663.	277.	1257.	75.82	1.47	0.08	0.41
5	Q5	5	29287.	540484.	10277.	502.	2576.	127.07	2.40	0.12	0.60
6	Q6	6	43088.	629451.	13197.	685.	3144.	103.86	2.12	0.11	0.51
7	Q7	7	13962.	230513.	4407.	206.	1270.	119.37	2.23	0.10	0.65

TABLE

FUTURE CONDITIONS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	1439.46	20554.38	394.81	17.53	128.87	441.68	8.08	0.33	2.72
2	Q2	2	1539.25	27229.91	518.88	23.14	151.49	500.05	9.29	0.40	2.75
3	Q3	3	1317.22	22383.82	389.64	18.14	114.36	475.77	8.14	0.37	2.41
4	Q4	4	981.78	10357.49	204.03	11.82	55.89	303.18	5.68	0.31	1.60
5	Q5	5	1295.15	24569.41	464.02	22.46	116.69	492.59	9.23	0.44	2.33
6	Q6	6	1917.35	28478.57	586.36	29.82	140.79	409.57	8.21	0.40	2.00
7	Q7	7	621.01	10455.43	196.35	8.94	57.16	474.66	8.70	0.38	2.57

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1972

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	LOAD (POUNDS) TOT.NITRO.	LOAD (POUNDS) DIS. PHOS.	LOAD (POUNDS) TOT. PHOS.	CONCENTRATION (MG/L) T S S	CONCENTRATION (MG/L) TOT.NITRO.	CONCENTRATION (MG/L) DIS. PHOS.	CONCENTRATION (MG/L) TOT. PHOS.
1	Q1	1	102.02	1447.25	28.64	1.32	9.18	78.42	1.50	0.07	0.49
2	Q2	2	109.58	1911.87	37.10	1.69	10.72	93.77	1.78	0.08	0.52
3	Q3	3	94.12	1563.84	27.63	1.31	8.04	89.89	1.56	0.07	0.46
4	Q4	4	69.79	729.57	14.82	0.88	4.00	56.33	1.10	0.06	0.30
5	Q5	5	92.81	1719.18	32.69	1.60	8.19	96.99	1.83	0.09	0.46
6	Q6	6	136.59	2001.27	41.96	2.18	9.99	77.90	1.60	0.08	0.38
7	Q7	7	44.26	733.19	14.02	0.65	4.04	89.24	1.67	0.08	0.49

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	<--- LOAD (POUNDS) ---> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	<--- CONCENTRATION (MG / L) ---> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	297.30	3114.19	63.38	3.04	19.95	70.50	1.36	0.06	0.44
2	Q2	2	319.41	4101.50	80.92	3.78	23.17	83.27	1.60	0.07	0.46
3	Q3	3	274.43	3347.65	59.89	2.89	17.31	79.64	1.39	0.07	0.41
4	Q4	4	203.42	1569.58	32.85	2.01	8.72	50.21	1.00	0.06	0.27
5	Q5	5	270.64	3678.94	70.37	3.46	17.59	85.18	1.61	0.08	0.41
6	Q6	6	398.17	4296.20	91.60	4.85	21.66	69.01	1.43	0.07	0.34
7	Q7	7	129.02	1571.79	30.53	1.46	8.72	79.17	1.50	0.07	0.43

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	<--- LOAD (POUNDS) ---> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	<--- CONCENTRATION (MG / L) ---> T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	25568.	267821.	5451.	261.	1716.	70.50	1.36	0.06	0.44
2	Q2	2	27470.	352729.	6959.	325.	1992.	83.27	1.60	0.07	0.46
3	Q3	3	23601.	287898.	5151.	249.	1489.	79.64	1.39	0.07	0.41
4	Q4	4	17494.	134984.	2825.	173.	750.	50.21	1.00	0.06	0.27
5	Q5	5	23275.	316390.	6052.	298.	1513.	85.18	1.61	0.08	0.41
6	Q6	6	34242.	369473.	7878.	417.	1863.	69.01	1.43	0.07	0.34
7	Q7	7	11095.	135174.	2626.	125.	750.	79.17	1.50	0.07	0.43

TABLE

FUTURE CONDITIONS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	1348.81	16273.17	315.90	14.30	102.40	340.52	6.26	0.26	2.10
2	Q2	2	1443.15	21540.03	412.89	18.59	120.13	385.32	7.18	0.31	2.12
3	Q3	3	1235.59	17670.55	309.02	14.49	90.46	368.16	6.31	0.29	1.87
4	Q4	4	920.31	8200.25	163.36	9.59	44.47	233.61	4.40	0.24	1.24
5	Q5	5	1215.35	19416.37	367.45	17.84	92.31	381.69	7.16	0.34	1.81
6	Q6	6	1797.81	22530.48	466.67	23.93	111.74	315.54	6.35	0.31	1.54
7	Q7	7	582.32	8268.02	156.17	7.18	45.31	366.16	6.73	0.30	1.98

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1973

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	92.11	1037.07	20.96	0.99	6.63	59.98	1.17	0.05	0.38
2	Q2	2	98.89	1368.63	26.89	1.25	7.72	71.88	1.38	0.06	0.40
3	Q3	3	84.91	1127.06	20.09	0.97	5.82	69.22	1.22	0.06	0.35
4	Q4	4	62.99	522.79	10.86	0.66	2.89	43.20	0.86	0.05	0.23
5	Q5	5	83.71	1232.09	23.53	1.16	5.89	74.68	1.42	0.07	0.36
6	Q6	6	123.26	1431.54	30.39	1.60	7.20	59.76	1.24	0.06	0.30
7	Q7	7	39.94	525.85	10.17	0.48	2.91	68.48	1.30	0.06	0.38

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG / L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	245.12	3993.27	78.18	3.54	25.22	82.72	1.57	0.07	0.52
2	Q2	2	263.30	5280.34	101.83	4.61	29.53	97.96	1.86	0.08	0.54
3	Q3	3	226.18	4328.51	76.11	3.59	22.21	92.75	1.61	0.07	0.47
4	Q4	4	167.69	2012.63	40.44	2.38	10.97	59.04	1.15	0.07	0.32
5	Q5	5	223.04	4754.45	90.20	4.39	22.64	99.95	1.89	0.09	0.47
6	Q6	6	328.21	5525.15	115.11	5.93	27.50	81.37	1.67	0.08	0.40
7	Q7	7	106.35	2026.16	38.51	1.78	11.14	92.84	1.73	0.08	0.51

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG / L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	26227.	427282.	8365.	379.	2699.	82.72	1.57	0.07	0.52
2	Q2	2	28173.	565000.	10896.	493.	3160.	97.96	1.86	0.08	0.54
3	Q3	3	24201.	463151.	8144.	384.	2377.	92.75	1.61	0.07	0.47
4	Q4	4	17943.	215351.	4327.	255.	1173.	59.04	1.15	0.07	0.32
5	Q5	5	23865.	508727.	9652.	470.	2422.	99.95	1.89	0.09	0.47
6	Q6	6	35118.	591193.	12317.	634.	2942.	81.37	1.67	0.08	0.40
7	Q7	7	11379.	216799.	4120.	190.	1192.	92.84	1.73	0.08	0.51

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	1348.14	20555.90	397.40	17.77	129.20	351.86	6.50	0.27	2.18
2	Q2	2	1441.46	27211.68	520.68	23.34	151.66	408.71	7.63	0.33	2.25
3	Q3	3	1233.45	22333.77	390.23	18.26	114.30	390.00	6.70	0.31	1.98
4	Q4	4	919.44	10357.21	205.42	11.97	56.07	246.64	4.67	0.26	1.31
5	Q5	5	1212.72	24534.02	464.10	22.52	116.62	412.82	7.75	0.37	1.95
6	Q6	6	1795.52	28462.21	588.39	30.05	141.03	337.23	6.80	0.34	1.65
7	Q7	7	581.55	10445.96	197.00	9.02	57.22	388.17	7.15	0.32	2.11

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1979

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	CONCENTRATION (MG/L) T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	66.68	1172.65	22.83	1.03	7.39	73.47	1.39	0.06	0.46
2	Q2	2	71.73	1554.90	29.88	1.35	8.68	87.10	1.65	0.07	0.48
3	Q3	3	61.70	1285.82	22.55	1.06	6.59	82.67	1.43	0.07	0.42
4	Q4	4	45.66	591.52	11.81	0.69	3.21	52.46	1.02	0.06	0.28
5	Q5	5	60.90	1405.37	26.63	1.29	6.69	89.34	1.68	0.08	0.42
6	Q6	6	89.44	1624.25	33.73	1.73	8.07	72.37	1.48	0.07	0.36
7	Q7	7	28.90	598.34	11.33	0.52	3.28	82.60	1.54	0.07	0.45

TABLE

FUTURE CONDITIONS

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	187.19	3812.65	73.51	3.25	23.95	121.79	2.28	0.10	0.76
2	Q2	2	201.76	5042.46	96.39	4.31	28.10	139.19	2.62	0.11	0.77
3	Q3	3	173.81	4120.88	72.00	3.36	21.09	129.61	2.24	0.10	0.66
4	Q4	4	128.36	1920.59	37.98	2.20	10.39	84.61	1.62	0.09	0.45
5	Q5	5	171.76	4538.07	85.84	4.16	21.57	136.74	2.57	0.12	0.65
6	Q6	6	251.63	5278.98	109.00	5.55	26.14	114.84	2.33	0.12	0.56
7	Q7	7	81.56	1932.76	36.42	1.66	10.58	131.23	2.43	0.11	0.71

***** VALUES OF LOADS AND CONCENTRATIONS FOR TOTAL DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE*IN)	LOAD (POUNDS)				CONCENTRATION (MG/L)			
				T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	16660.	339327.	6542.	290.	2131.	121.79	2.28	0.10	0.76
2	Q2	2	17957.	448779.	8579.	383.	2501.	139.19	2.62	0.11	0.77
3	Q3	3	15469.	366760.	6408.	299.	1877.	129.61	2.24	0.10	0.66
4	Q4	4	11424.	170933.	3380.	196.	925.	84.61	1.62	0.09	0.45
5	Q5	5	15287.	403889.	7639.	371.	1920.	136.74	2.57	0.12	0.65
6	Q6	6	22395.	469831.	9701.	494.	2327.	114.84	2.33	0.12	0.56
7	Q7	7	7259.	172016.	3242.	148.	942.	131.23	2.43	0.11	0.71

TABLE

FUTURE CONDITIONS

PAGE

***** VALUES OF LOADS AND CONCENTRATIONS FOR (MEAN+3SD) DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE*IN)	¦<-----------L O A D (POUNDS)----------->¦ T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	¦<--C O N C E N T R A T I O N (M G / L)--->¦ T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	1027.73	20072.36	383.83	16.82	125.69	487.00	8.90	0.36	3.00
2	Q2	2	1100.26	26575.73	505.41	22.44	147.74	531.92	9.88	0.42	2.93
3	Q3	3	942.49	21736.92	378.06	17.56	111.02	498.49	8.53	0.39	2.53
4	Q4	4	701.51	10113.50	198.27	11.40	54.47	325.78	6.10	0.33	1.72
5	Q5	5	927.41	23937.89	451.88	21.86	113.66	503.24	9.43	0.45	2.38
6	Q6	6	1370.79	27816.46	571.49	28.95	137.37	432.57	8.67	0.43	2.11
7	Q7	7	444.03	10189.02	191.03	8.66	55.67	502.36	9.21	0.40	2.72

***** VALUES OF LOADS AND CONCENTRATIONS FOR MEAN MAX HOUR DISCHARGES *****

QUINSIGAMOND DRAINAGE BASIN
1980 JAN. - NOV.

NO	SEGMENT		DISCHARGE (ACRE*IN)	¦<-----------L O A D (POUNDS)----------->¦ T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.	¦<--C O N C E N T R A T I O N (M G / L)--->¦ T S S	TOT.NITRO.	DIS. PHOS.	TOT. PHOS.
1	Q1	1	64.51	1437.63	27.58	1.21	9.01	102.11	1.91	0.08	0.63
2	Q2	2	69.57	1905.47	36.32	1.62	10.60	116.22	2.19	0.10	0.64
3	Q3	3	59.96	1567.26	27.32	.27	8.01	107.39	1.86	0.09	0.55
4	Q4	4	44.25	724.68	14.25	0.82	3.91	70.78	1.36	0.08	0.38
5	Q5	5	59.28	1719.77	32.49	1.57	8.17	113.87	2.14	0.10	0.54
6	Q6	6	86.78	1992.34	41.02	2.08	9.85	96.00	1.95	0.10	0.47
7	Q7	7	28.13	731.90	13.75	0.63	4.00	109.30	2.03	0.09	0.59

APPENDIX C

Appendix C

Settling Column Test Plots

The following plots present the results of the four special settling column test undertaken on samples from Route 9 and Anna Street. The plots present the percentage of the water quality constituent remaining compared to the particle settling velocity. The remaining solids have settling velocities less than or equal to the indicated values.

Settling column test were taken at Route 9 on 11/28 and 12/3. Tests were taken at Anna Street for the same two dates. A table of initial values for each settling column run was presented in Chapter 5.

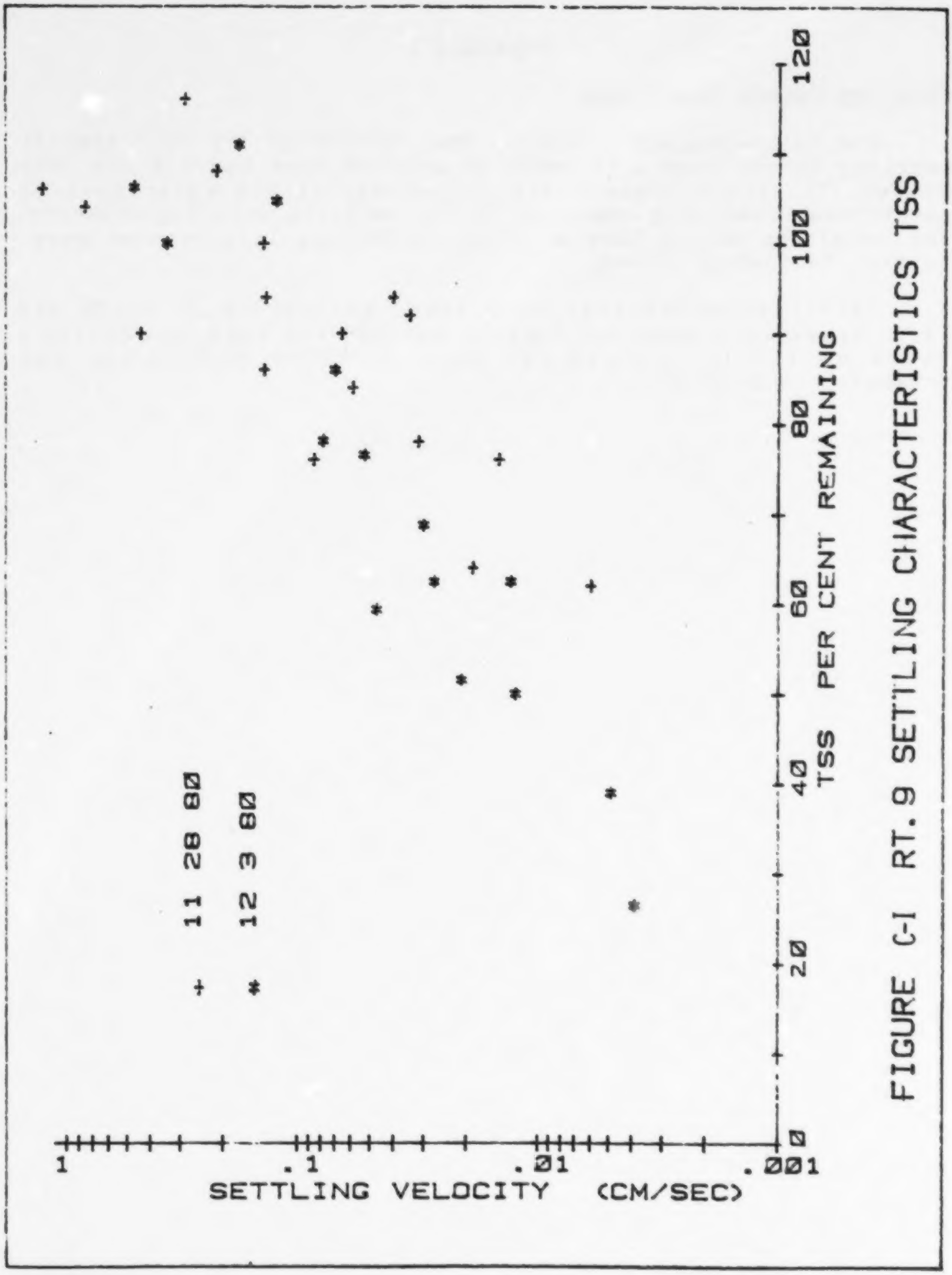

FIGURE C-I RT.9 SETTLING CHARACTERISTICS TSS

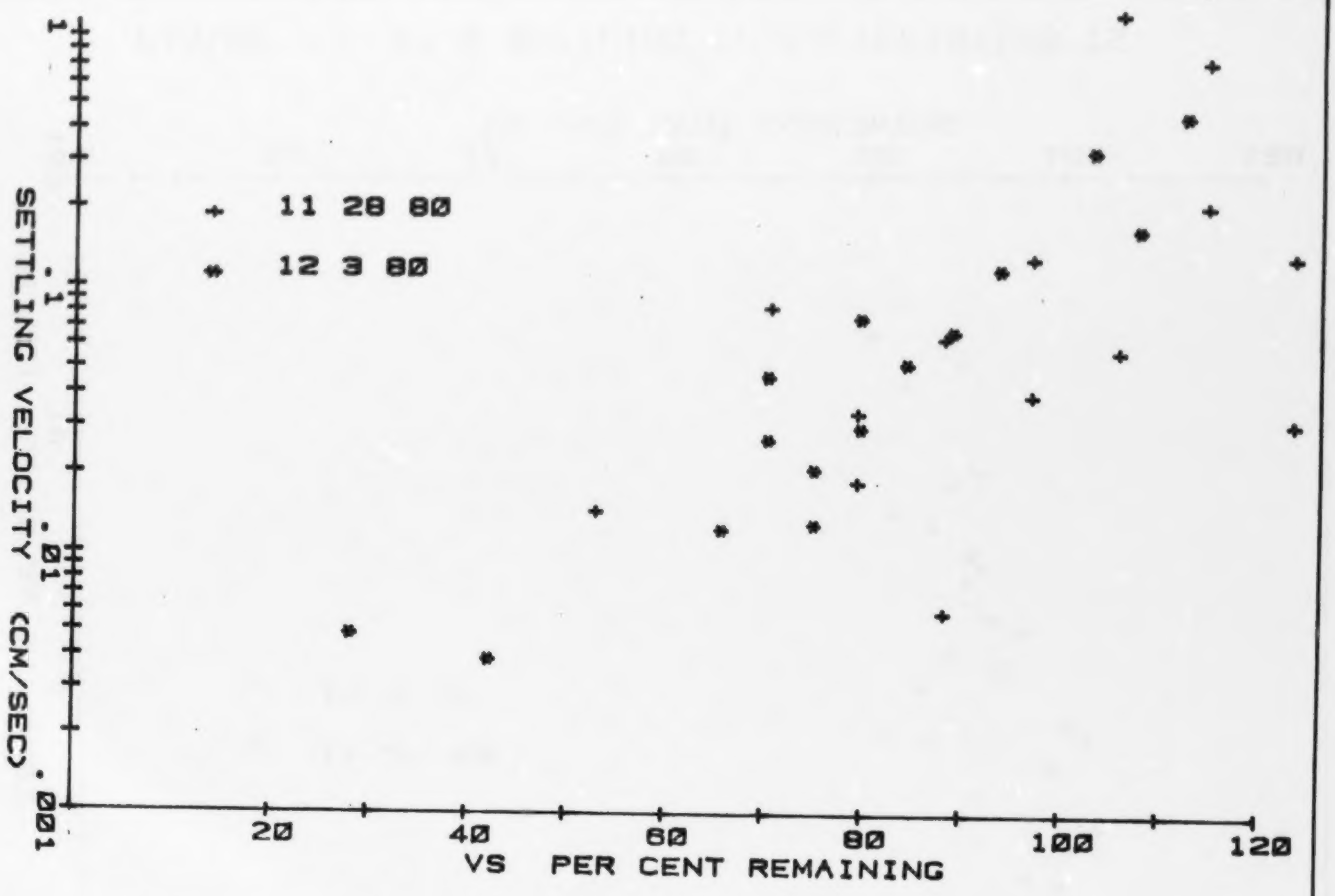

FIGURE C-2 RT. 9 SETTLING CHARACTERISTICS VS

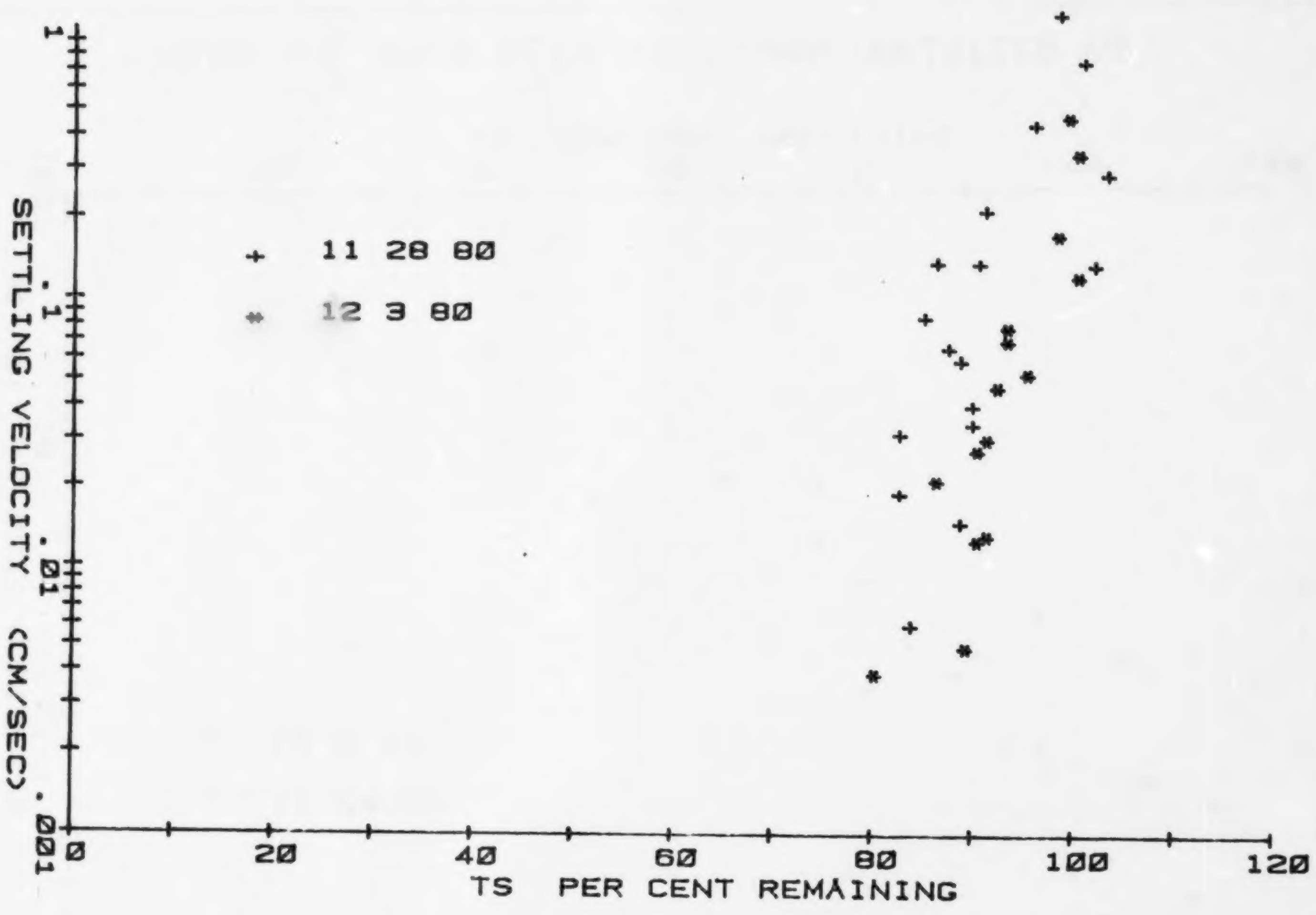

FIGURE C-3 RT. 9 SETTLING CHARACTERISTICS TS

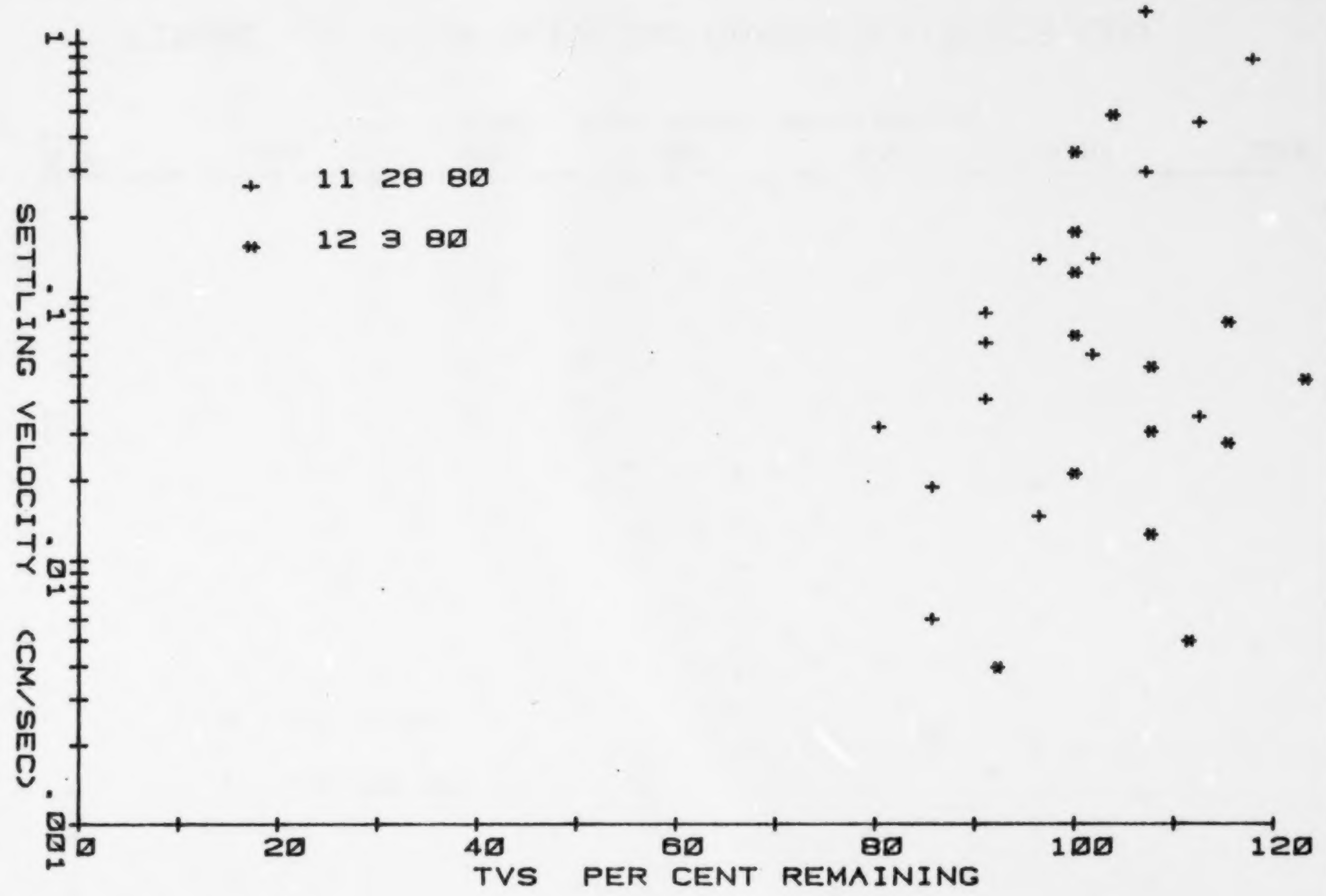

FIGURE C-4 RT. 9 SETTLING CHARACTERISTICS TVS

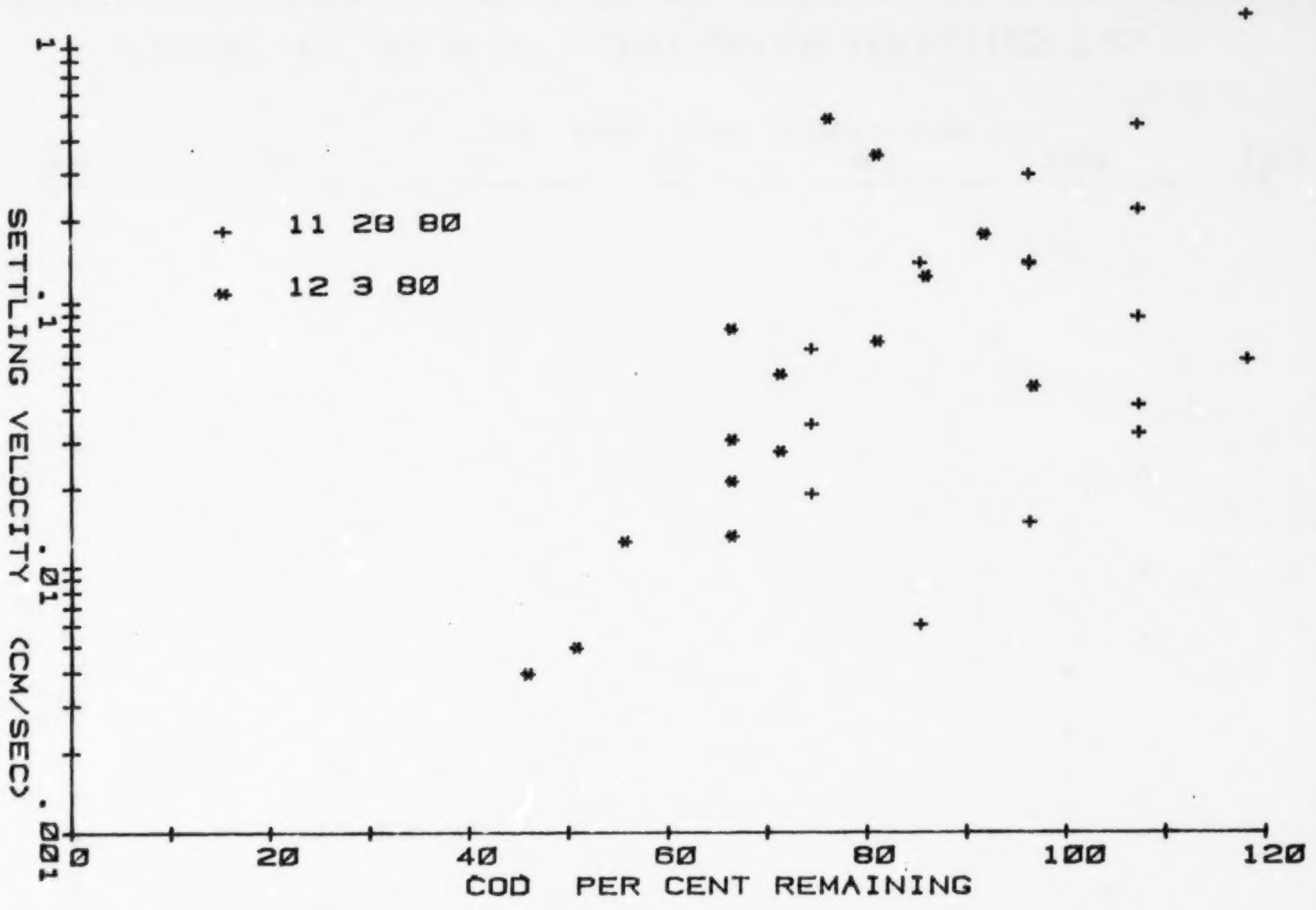

FIGURE C-5 RT. 9 SETTLING CHARACTERISTICS COD

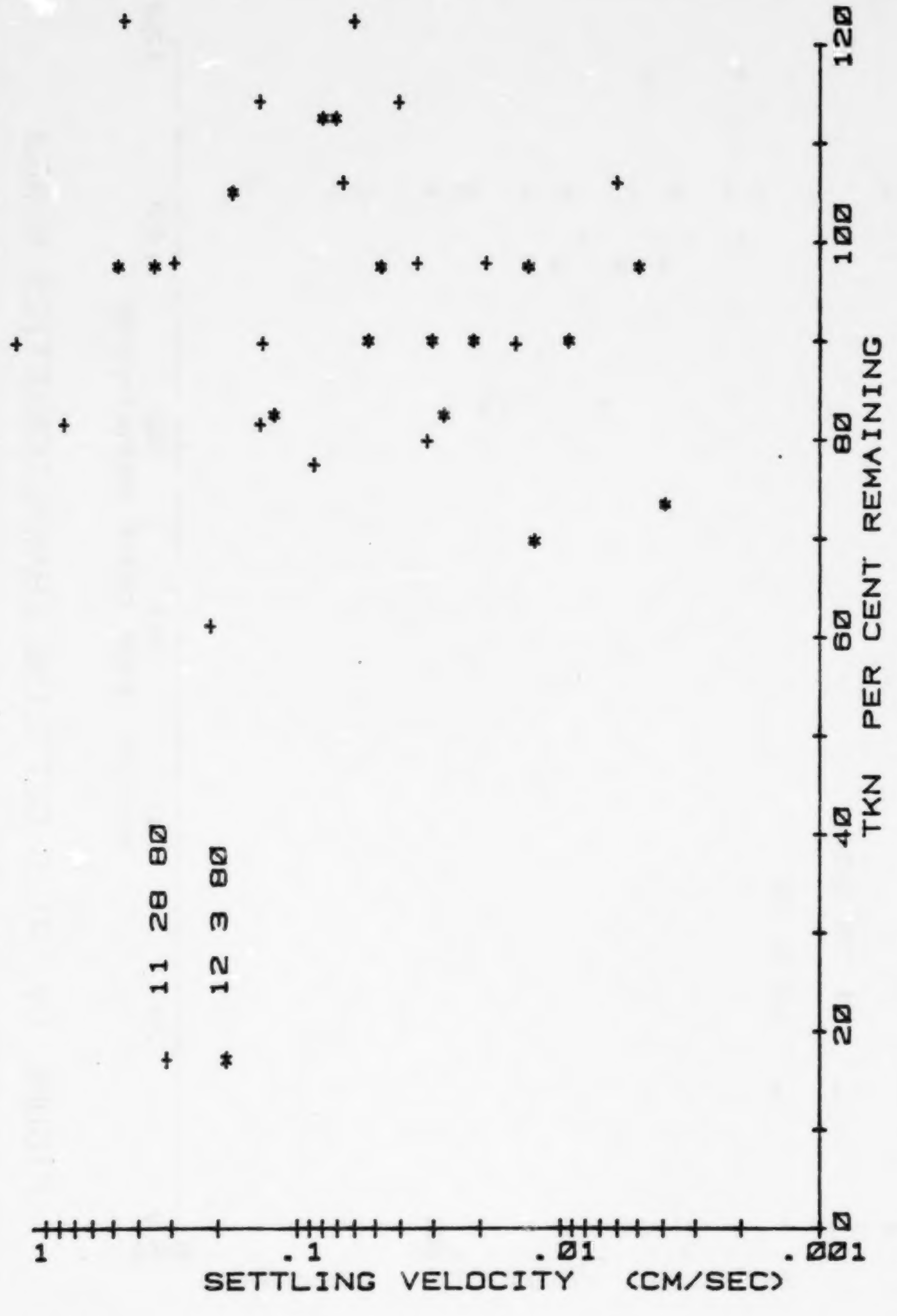

FIGURE C-6 RT.9 SETTLING CHARACTERISTICS TKN

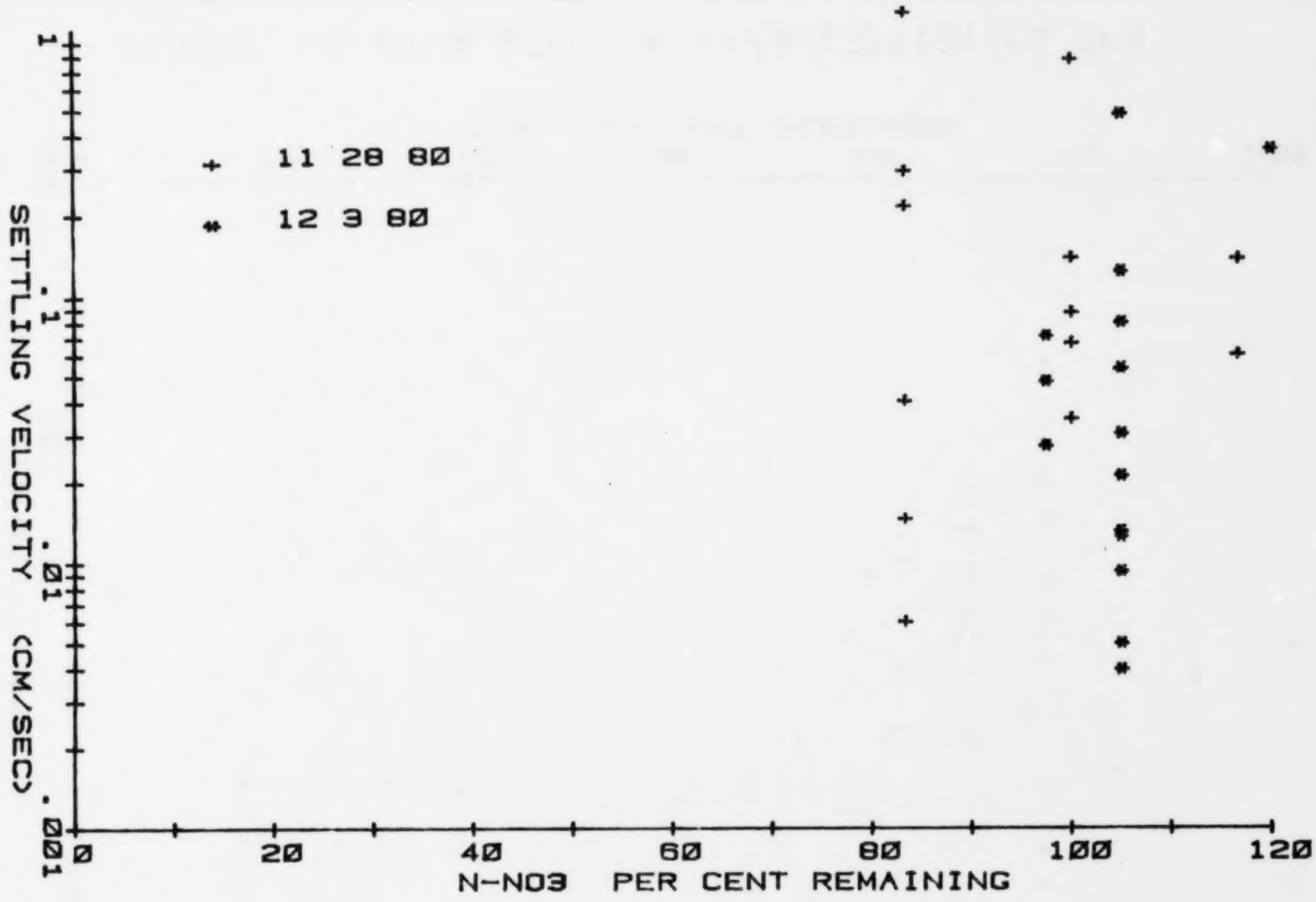

FIGURE C-7 RT. 9 SETTLING CHARACTERISTICS N-NO3

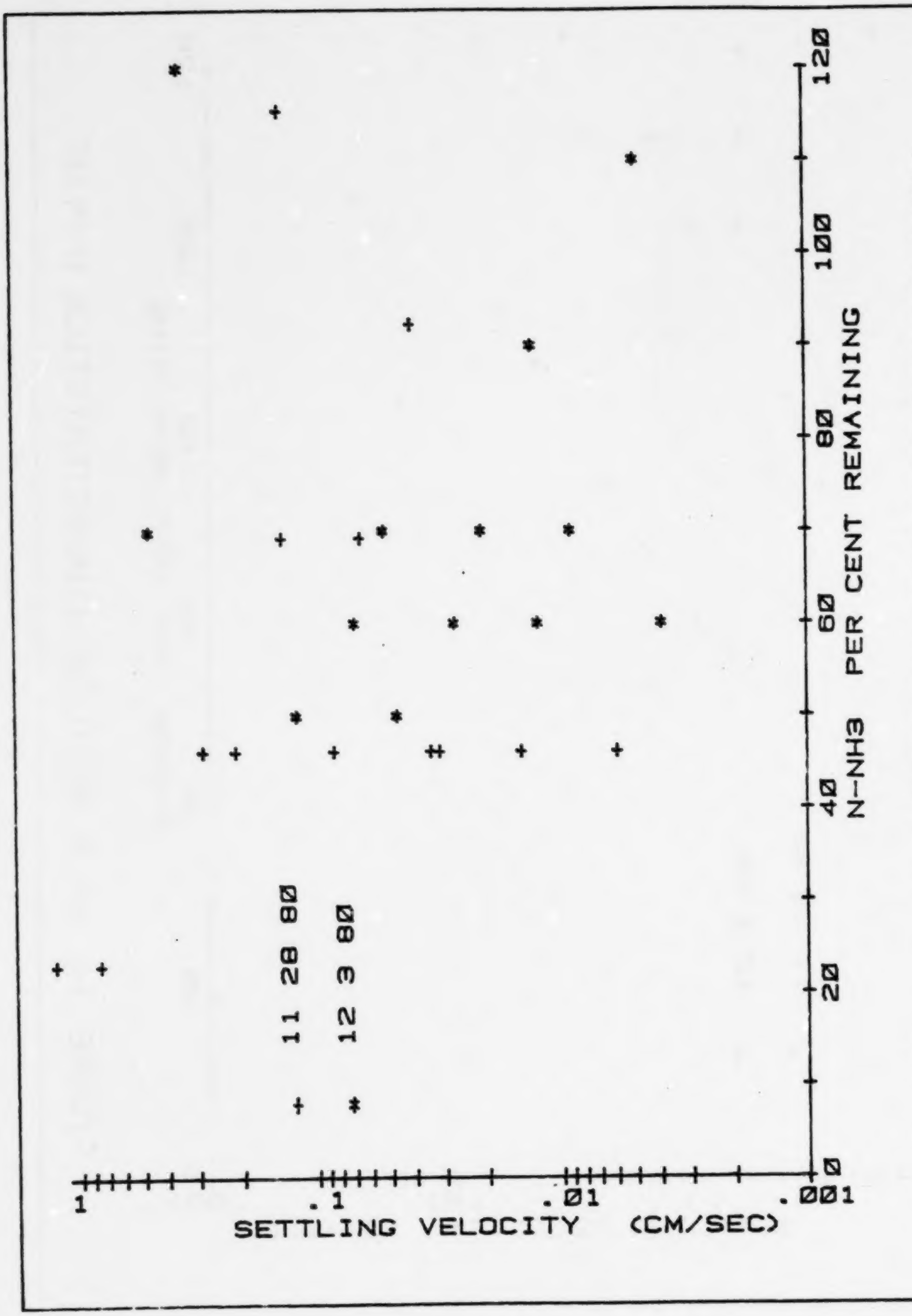

FIGURE C-8 RT.9 SETTLING CHARACTERISTICS N-NH3

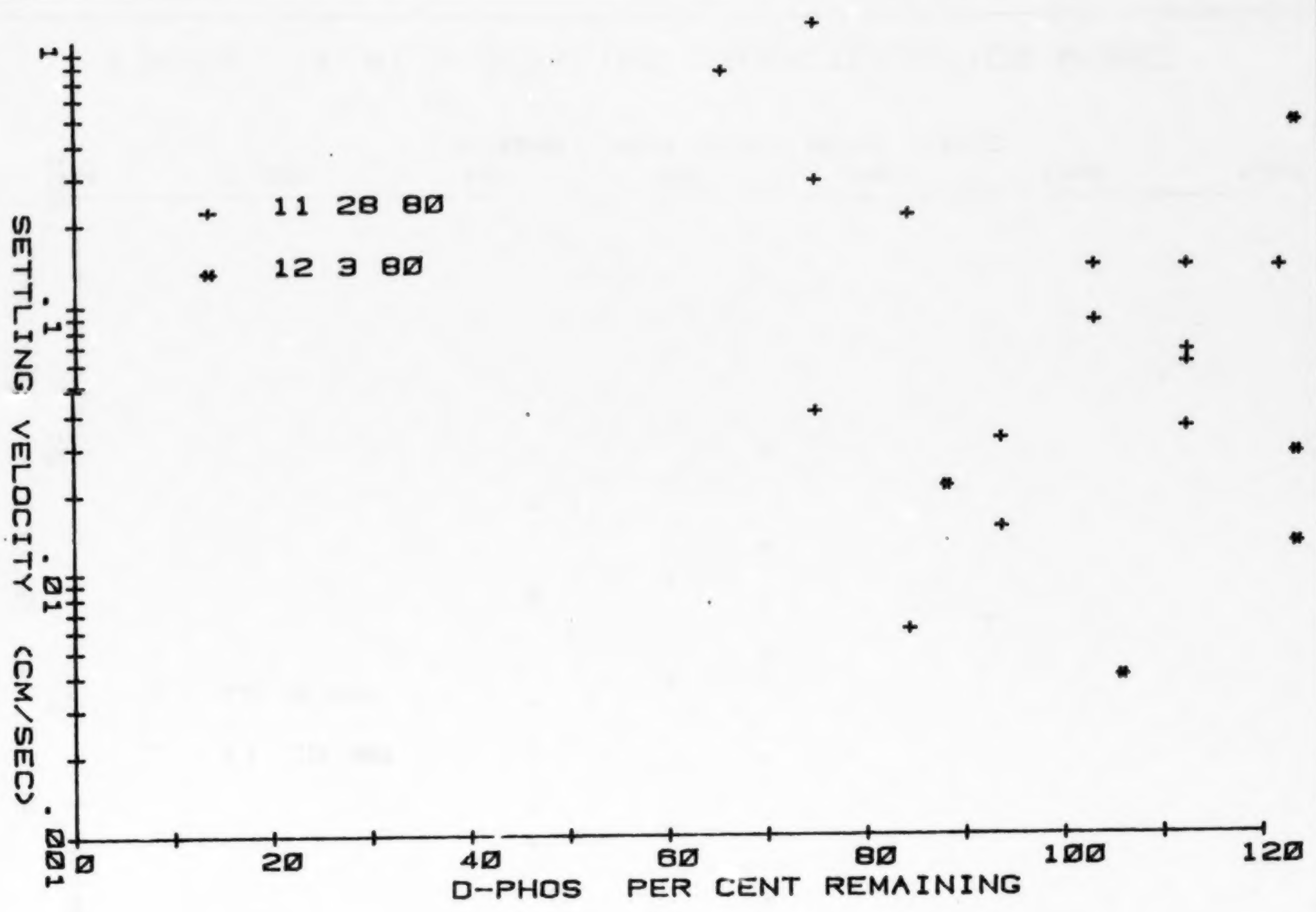

FIGURE C-9 RT. 9 SETTLING CHARACTERISTICS D-PHOS

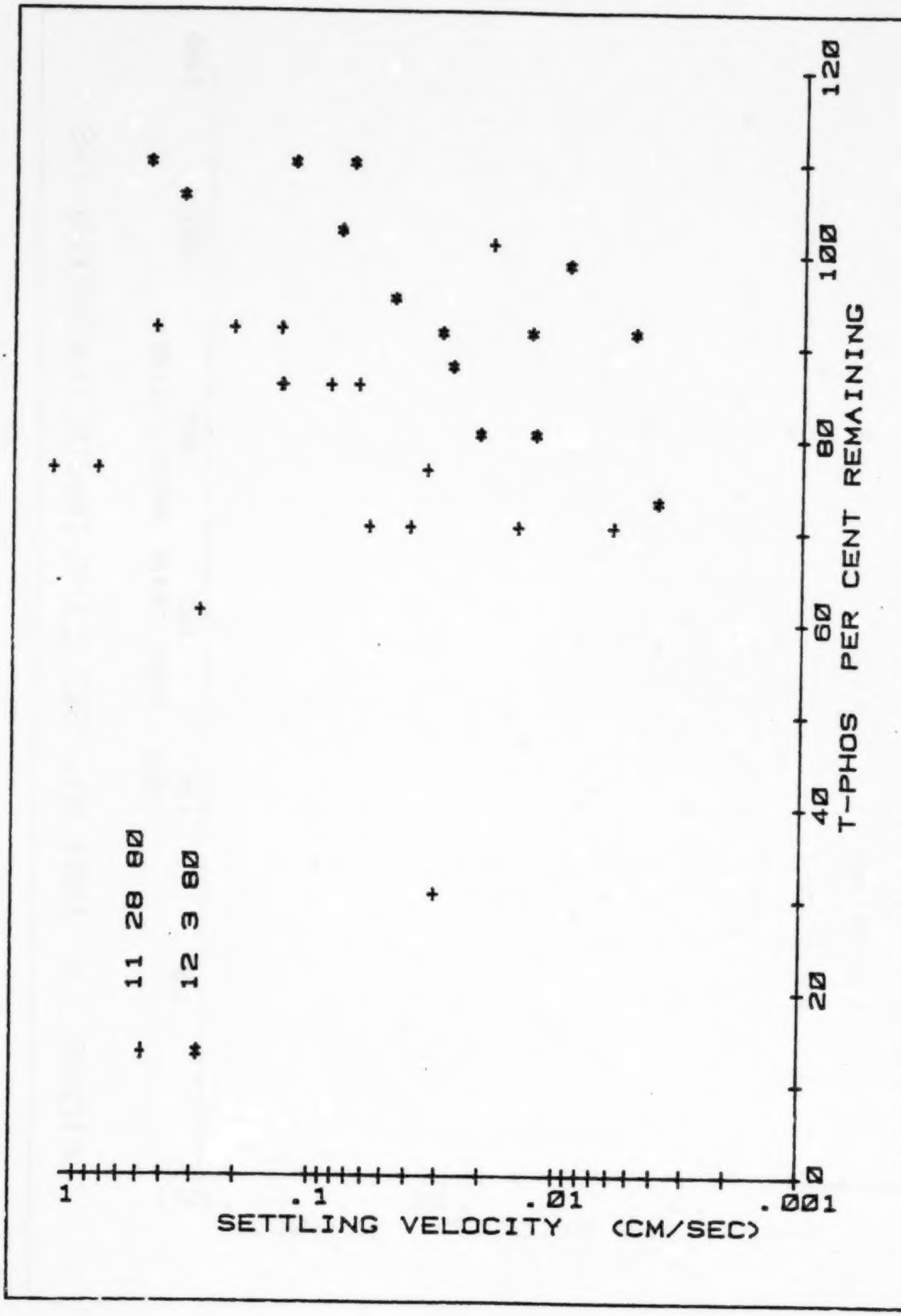

FIGURE C-10 RT.9 SETTLING CHARACTERISTICS T-PHOS

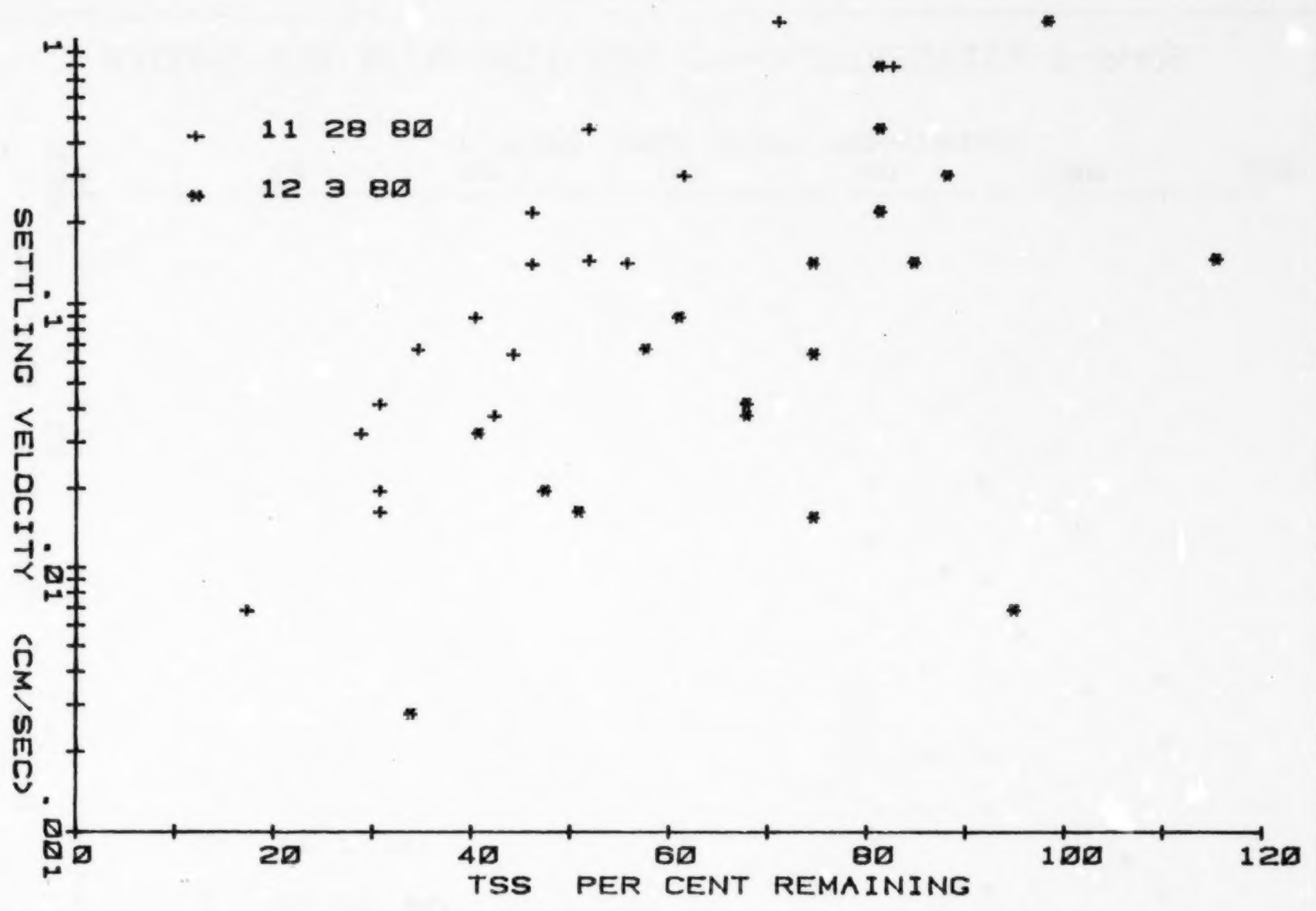

FIGURE C-II ANNA ST. SETTLING CHARACTERISTICS TSS

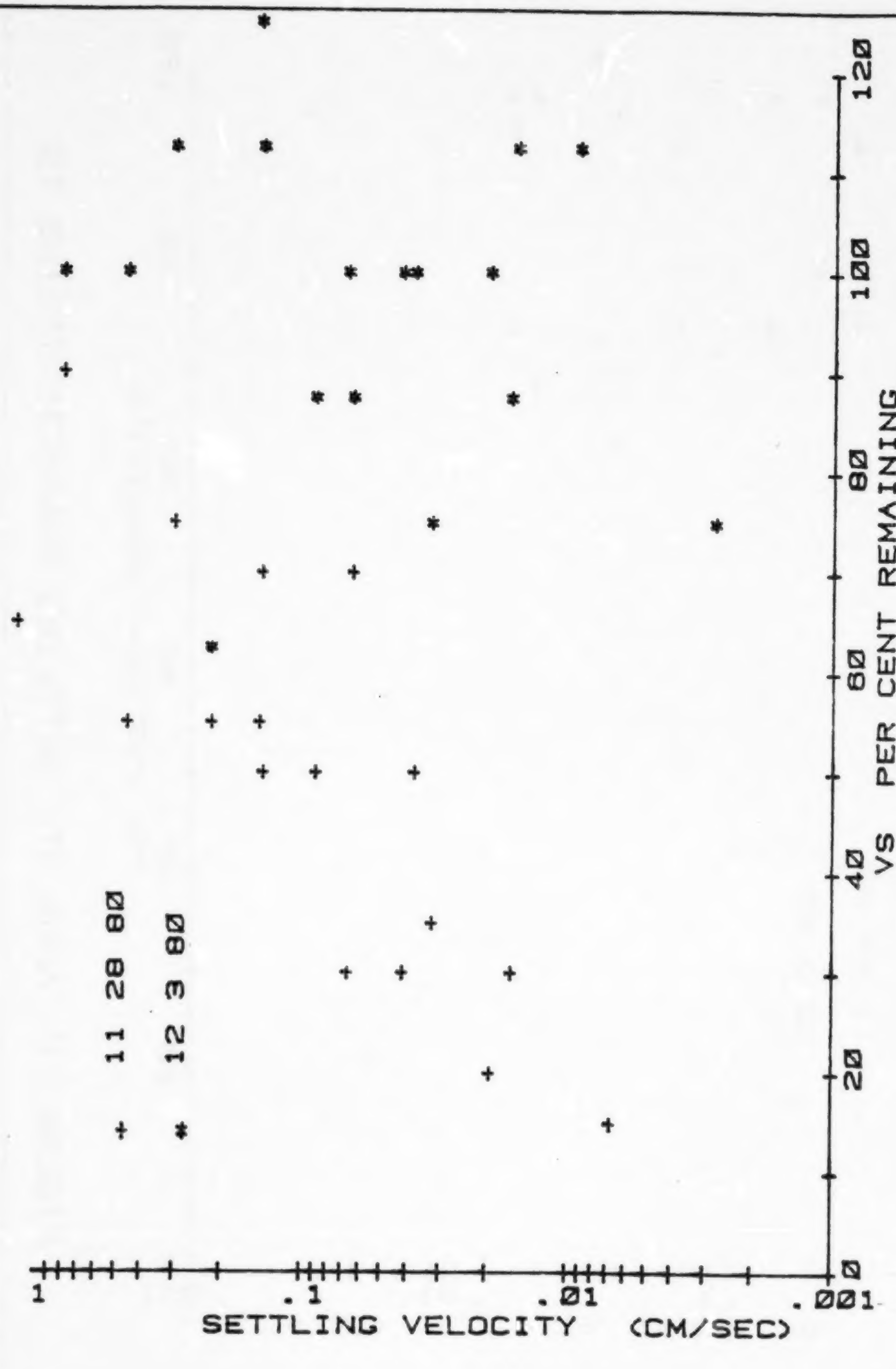

FIGURE C-12 ANNA ST. SETTLING CHARACTERISTICS VS

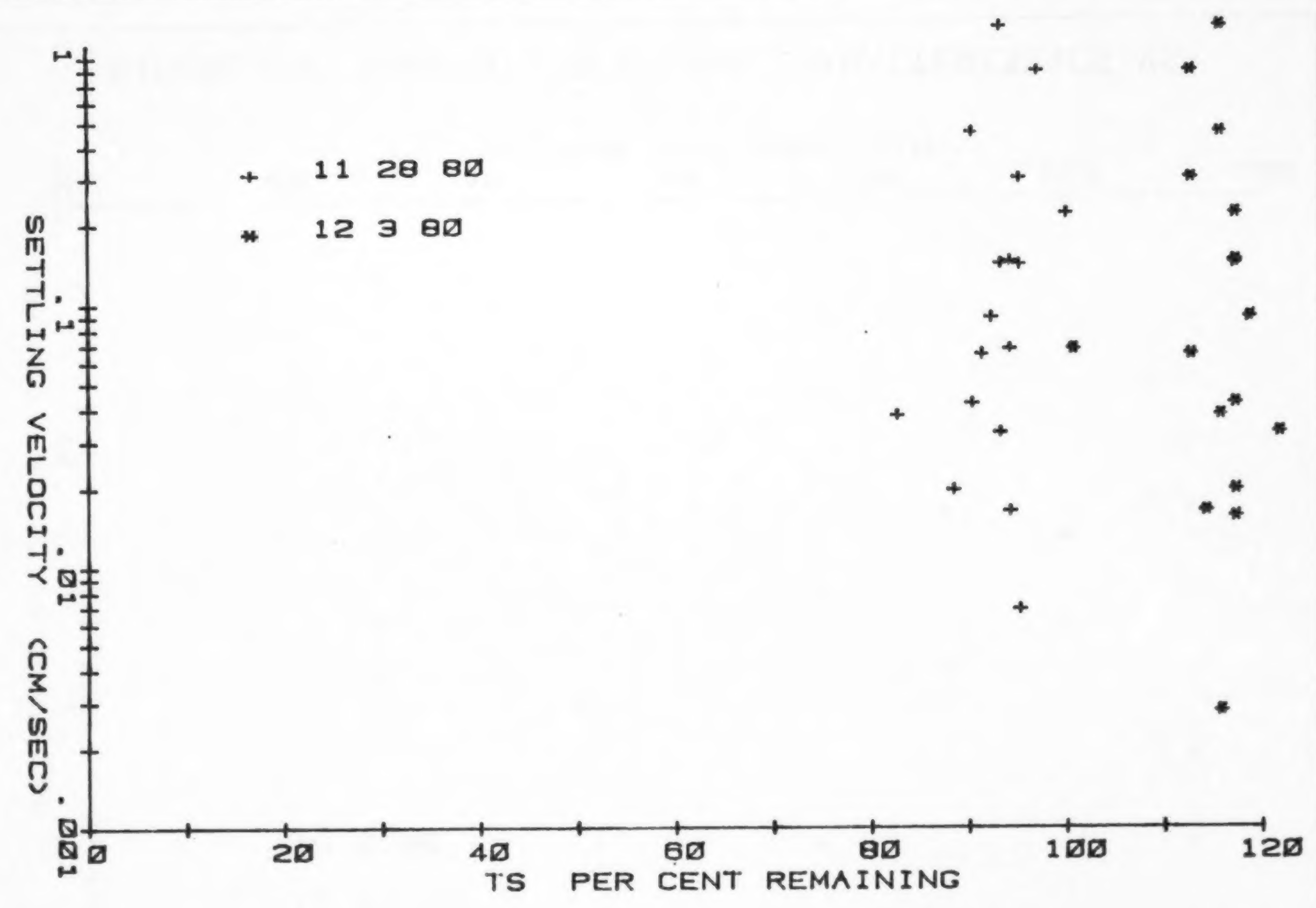

FIGURE C-13 ANNA ST. SETTLING CHARACTERISTICS TS

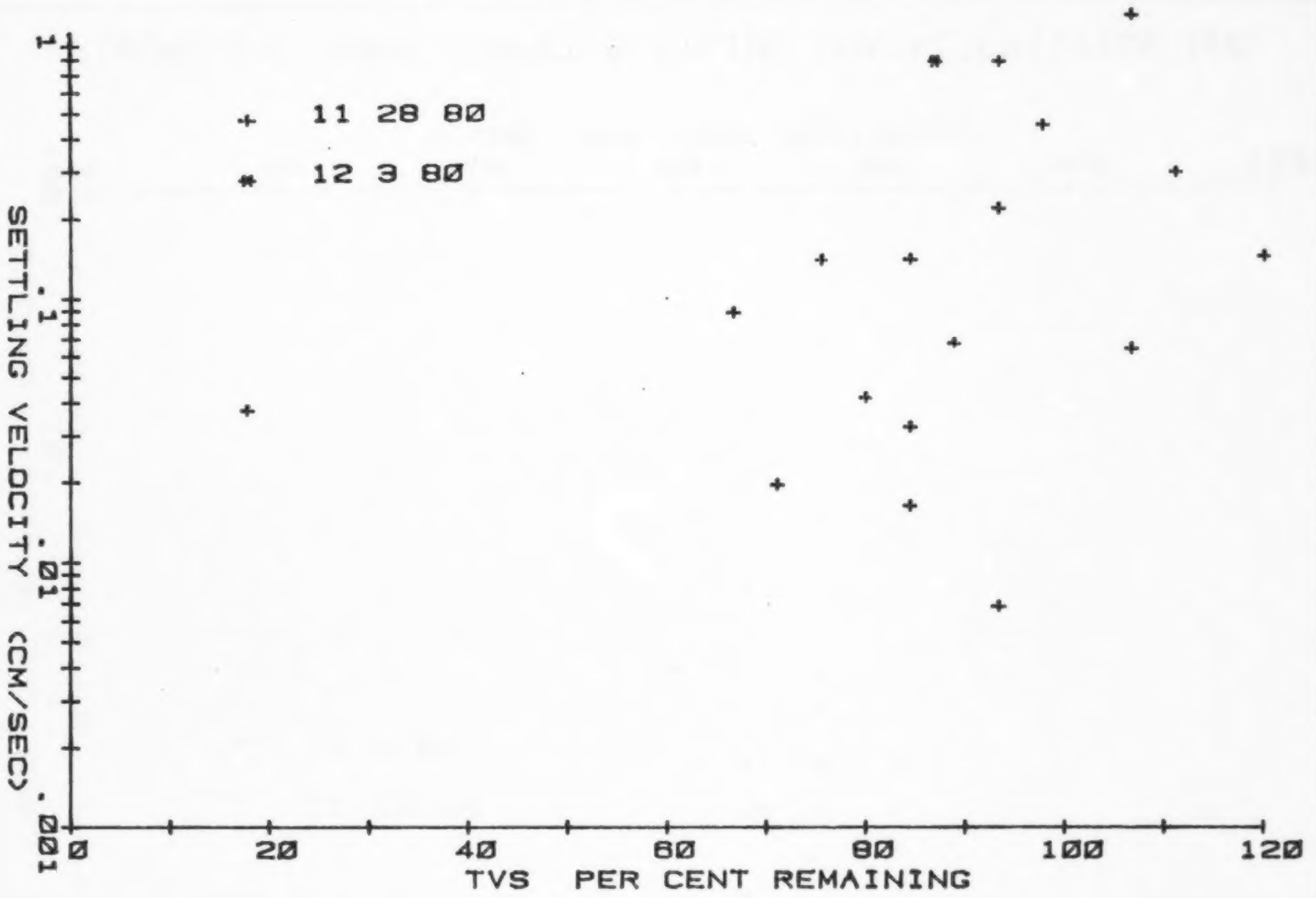

FIGURE C-14 ANNA ST. SETTLING CHARACTERISTICS TVS

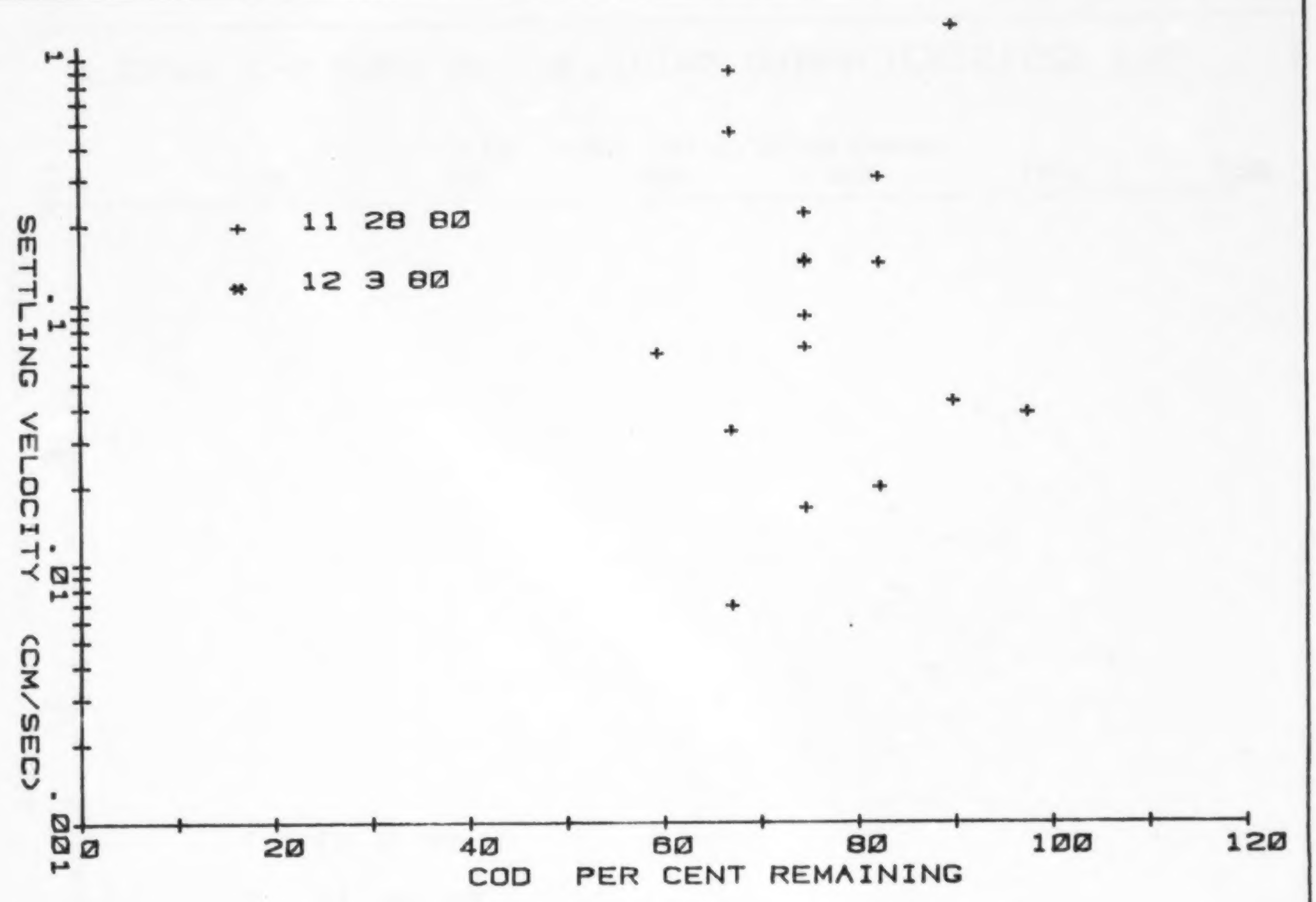

FIGURE C-15 ANNA STREET SETTLING CHARACTERISTICS COD

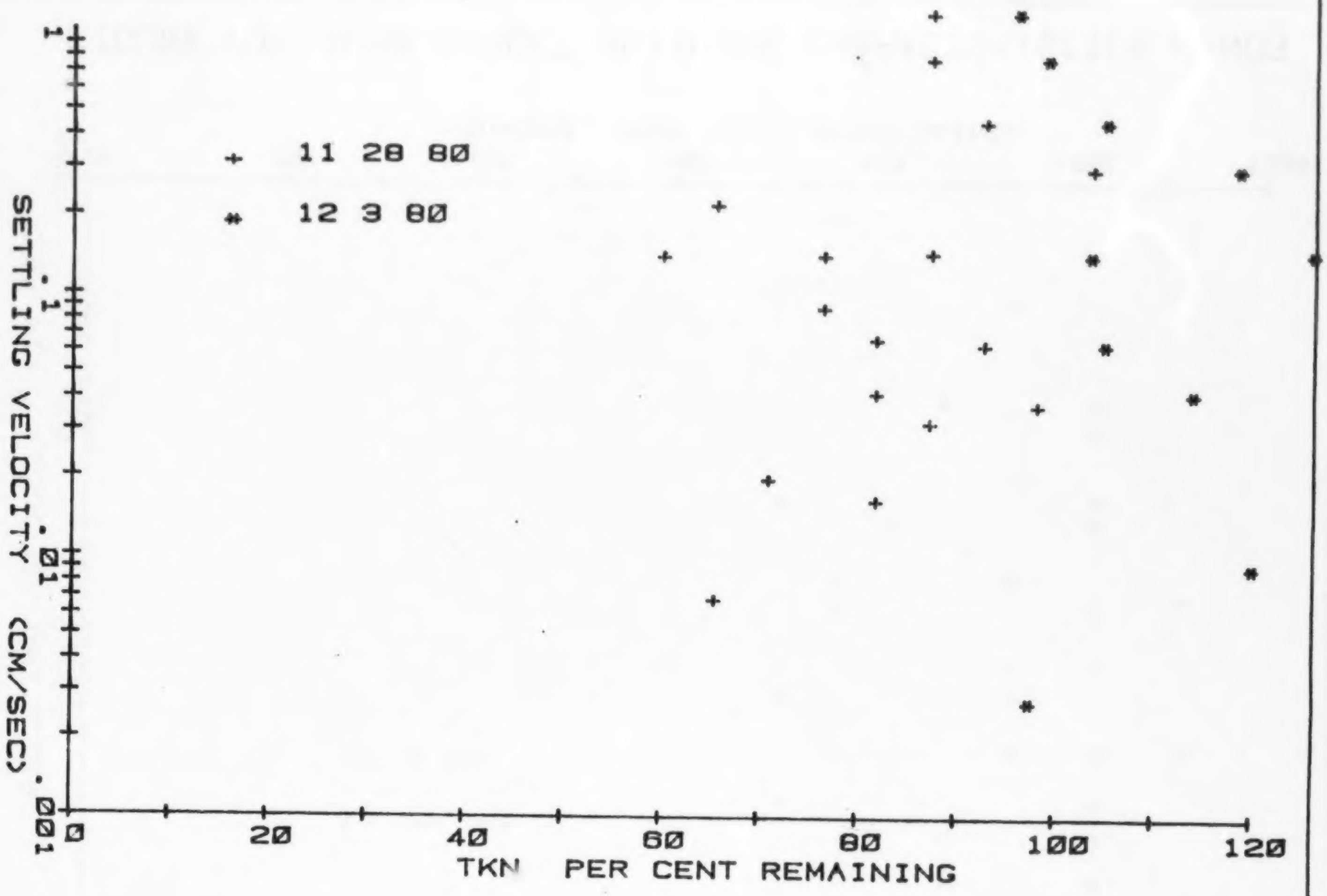

FIGURE C-16 ANNA STREET SETTLING CHARACTERISTICS TKN

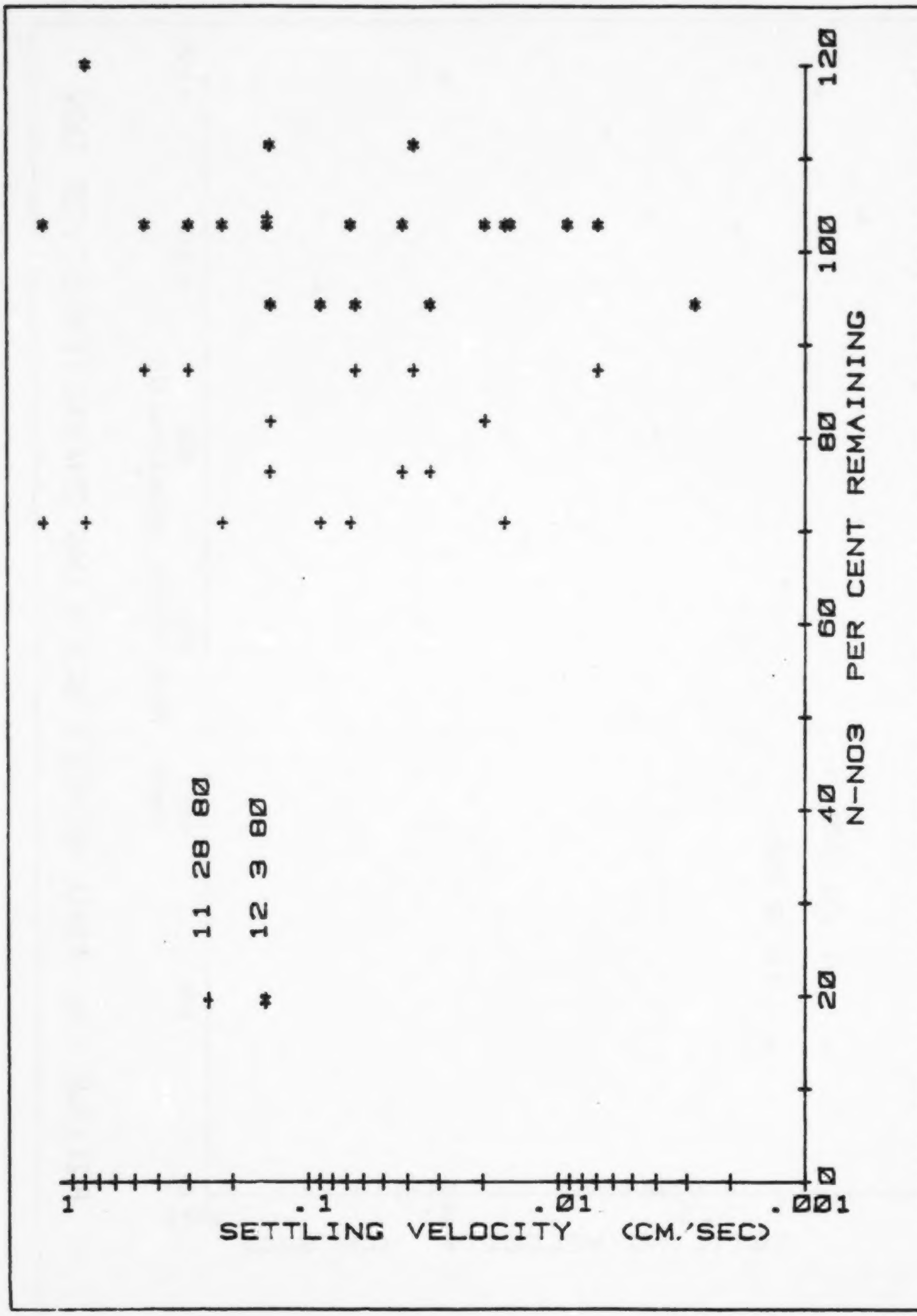

FIGURE C-17 ANNA STREET SETTLING CHARACTERISTICS N-NO3

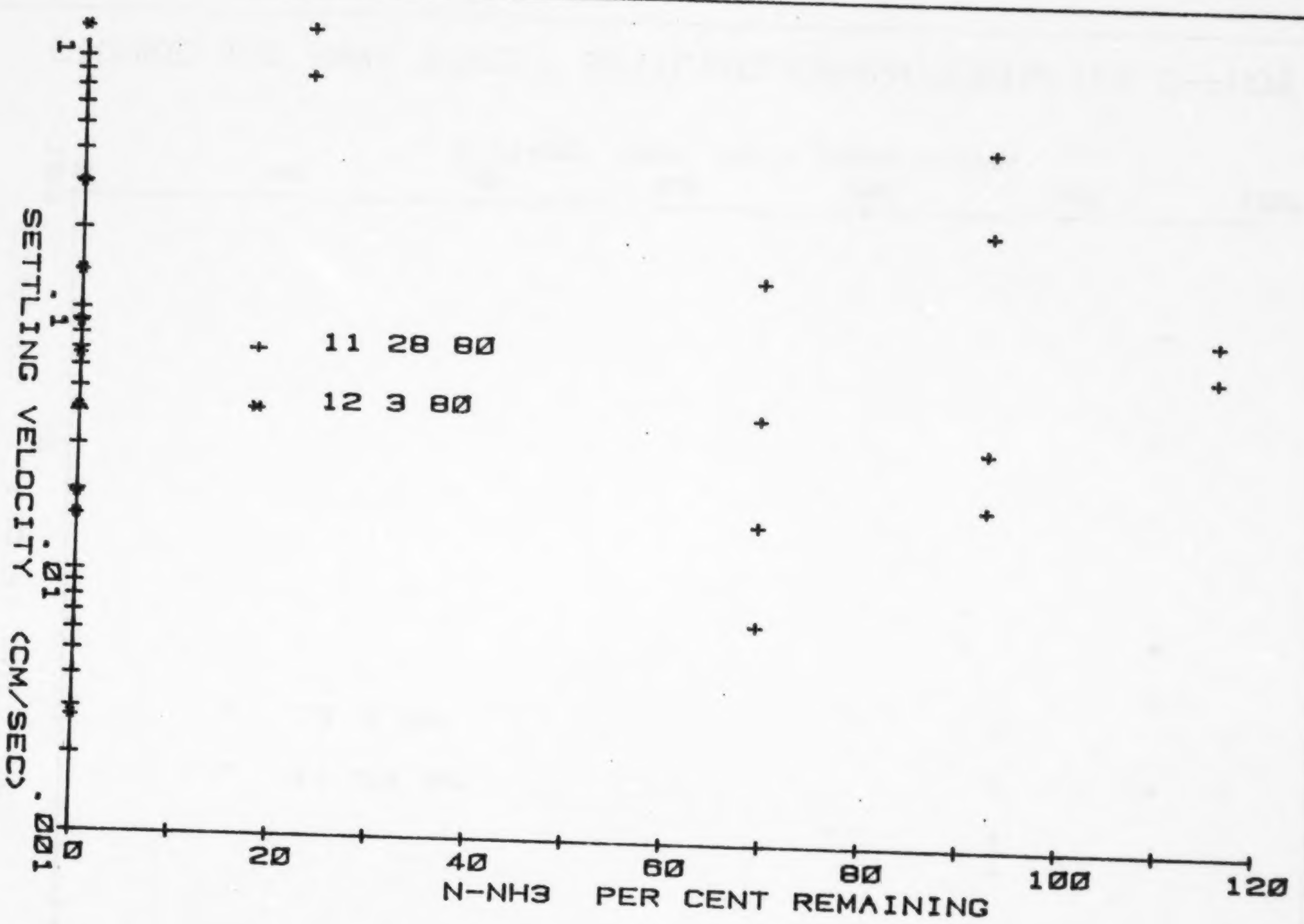

FIGURE C-18 ANNA STREET SETTLING CHARACTERISTICS N-NH3

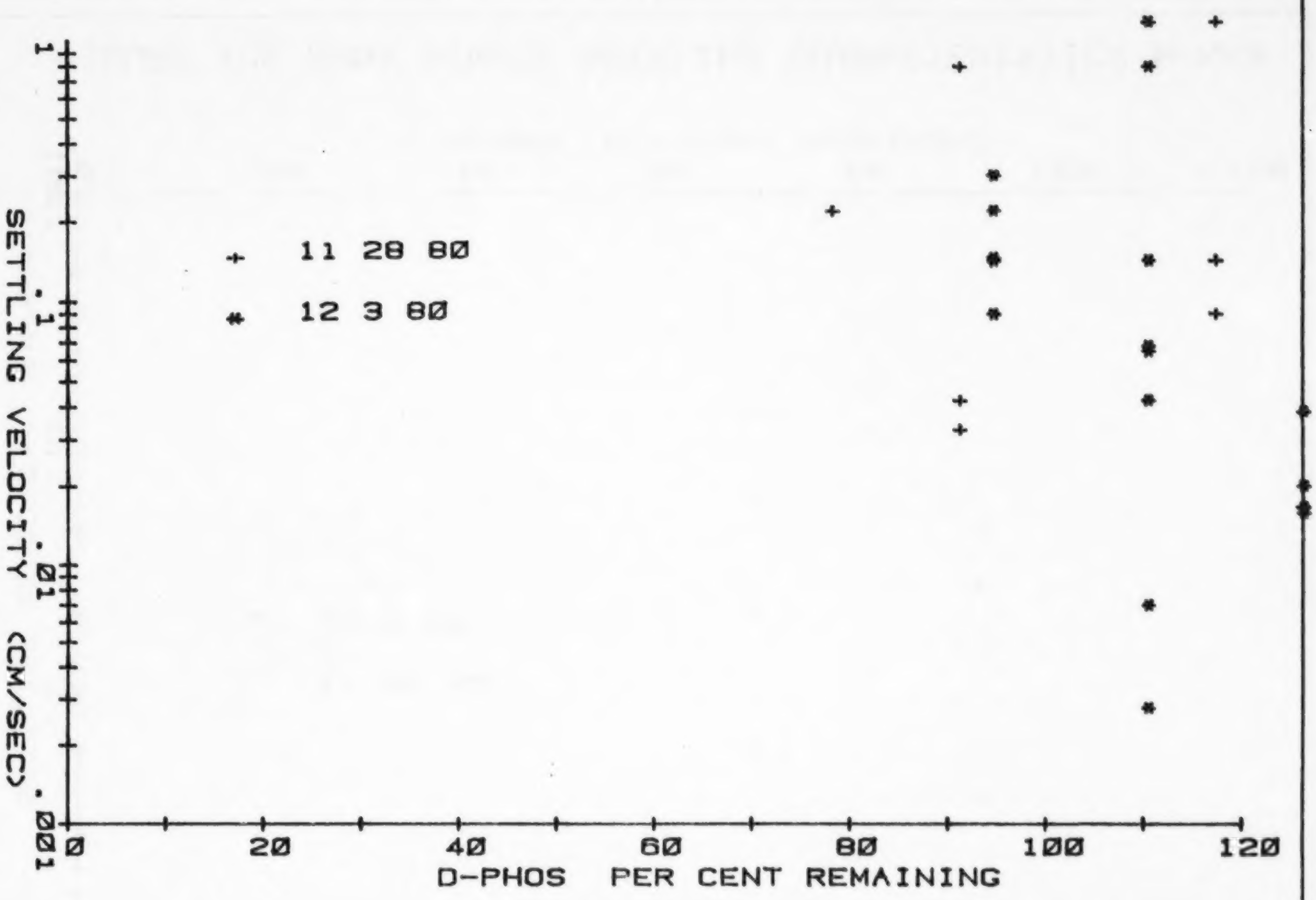

FIGURE C-19 ANNA STREET SETTLING CHARACTERISTICS D-PHOS

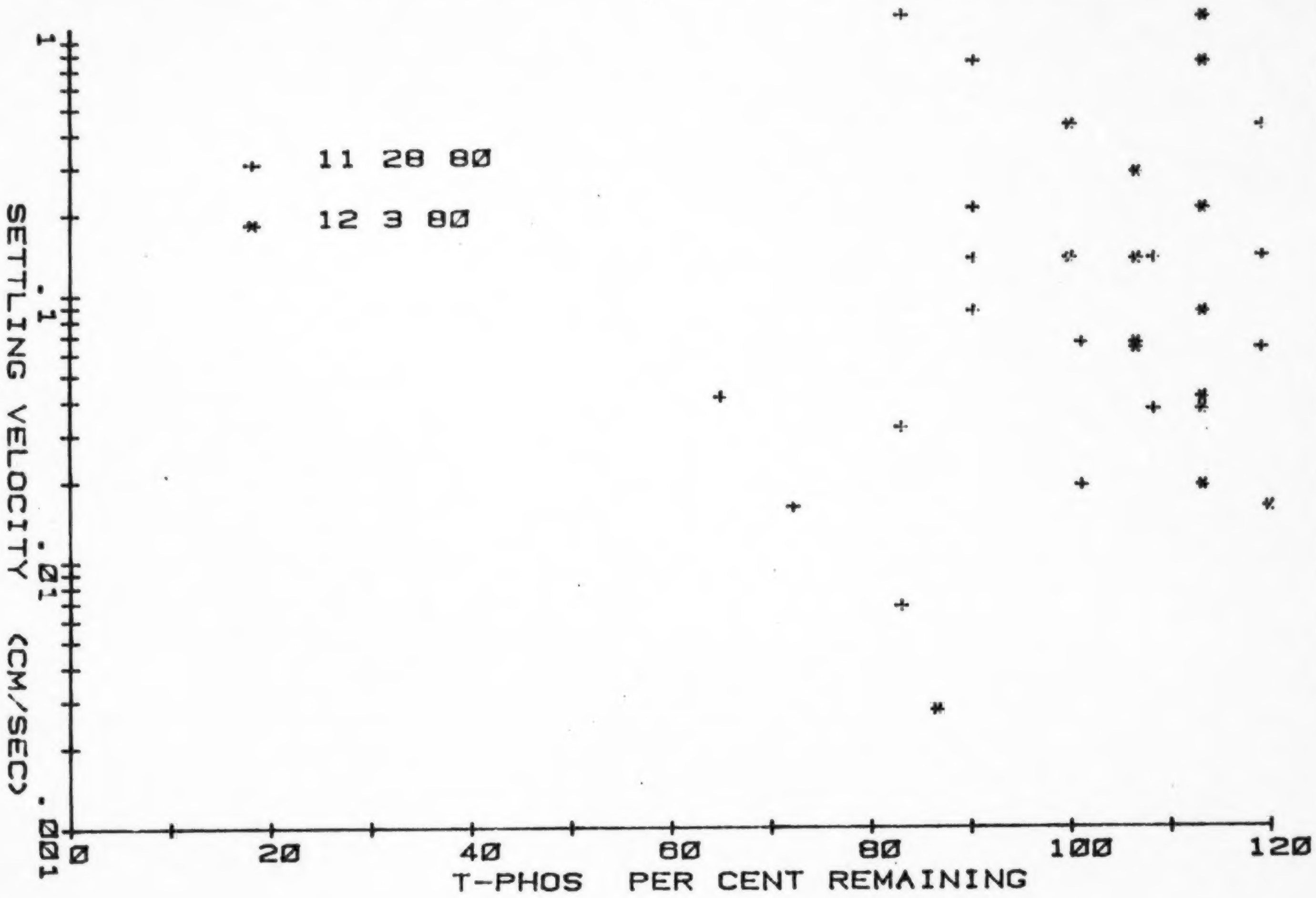

FIGURE C-20 ANNA STREET SETTLING CHARACTERISTICS T-PHOS